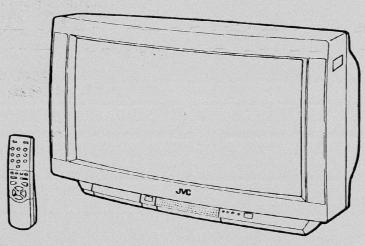
JVC

SERVICE MANUAL

GOLOURTEUEVISION

AV-32WZ2EN(A) AV-32WZ2EP(A) AV-28WZ2EN(A) AV-28WZ2EP(A) BASIC CHASSIS

MB



CONTENTS

	SPECIFICATIONS ····································
	SAFETY PRECAUTIONS · · · · · · · · · · · · · · · · · · ·
	SPECIFIC SERVICE INSTRUCTIONS
	DISASSEMBLY PROCEDURE · · · · · · · · · · · · · · · · · · ·
	SERVICE ADJUSTMENTS
	PARTS LIST · · · · · · · · · · · · · · · · · · ·
	OPERATING INSTRUCTION
*	STANDARD CIRCUIT DIAGRAM ······2-1

SPECIFICATIONS

item	Content				
item	32'	28'			
Dimensions (W×H×D)	805mm × 550mm × 550mm	716mm × 489mm × 496mm			
Mass	54.8kg	40.1 kg			
TV RF System	CCIR(B/G,I,L) EN MODEL:B/G ONLY	CCIR(B/G,I,L) EN MODEL:B/G ONLY			
Colour System	PAL / SECAM / NTSC(Only in EXT mode)	PAL / SECAM / NTSC(Only in EXT mode)			
Stereo System A2/NICAM		A2/NICAM			
Teletext System	TOP/FLOF	TOP/FLOF			
Receiving Frequency					
VHF	47MHz~ 470MHz	47MHz~ 470MHz			
UHF	470MHz~862MHz	470MHz~862MHz			
		*			
Intermediate Frequency					
VIF Carrier	38.9MHz(B/G,I,L) EN MODEL:B/G ONLY	38.9MHz(B/G,I,L) EN MODEL:B/G ONLY			
SIF Carrier	33.4(5.5MHz),33.5(6.0MHz)	33.4(5.5MHz),33.5(6.0MHz)			
***************************************	EN MODEL: 5.5MHz ONLY	EN MODEL: 5.5MHz ONLY			
Colour Sub Carrier Freq.					
PAL	4.43MHz	4.43MHz			
SECAM NTSC	4.0625MHz / 4.25MHz	4.0625MHz / 4.25MHz			
	3.58MHz / 4.43MHz	3.58MHz / 4.43MHz			
Power Input	AC 220V~240V , 50Hz	AC 220V~240V , 50Hz			
Power Consumption	150W(Max) /150W(Avg)	155W(Max) /145W(Avg)			
Picture Tube	Visible size : 76cm, Measured diagonally	Visible size : 66cm, Measured diagonally			
High Voltage	31.0Kv +1kV (at zero beam current) -1.5kV	31.0Kv (at zero beam current)			
Speaker	φ10cm round (4Ω)×2	φ10cm round (4Ω)×2			
Audio Output	20W + 20W	20W + 20W			
EXT-1/EXT-2/EXT-3	21-pin Euro connector(SCART socket)	21-pin Euro connector(SCART socket)			
(Input/Output) EXT4(Input) Video	1Vp-p 75Ω(RCA pin jack)	1Vp-p 75Ω(RCA pin jack)			
Audio(L/R)					
Addio(E/K)	500mVrms(-4dBs), High Impedance (RCA pin jack)	500mVrms(-4dBs), High Impedance (RCA pir iack)			
Aerial Input Term	75Ωunbalanced, Coaxial	75 Ω unbalanced, Coaxial			
Headphone jack	Stereo mini jack (\$3.5mm)	Stereo mini jack (\$3.5mm)			
Remote Control Unit	RM-C793	RM-C793			
	AAA(R03) dry battery × 2	AAA(R03) dry battery × 2			

Design & specification are subject to change without notice.

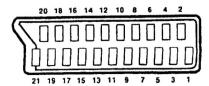
★ Manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol [][] are trademarks of Dolby Laboratories Licensing Corporation.

■21-pin Euro connector (SCART socket): EXT-1 / EXT-2 / EXT-3

(P-P= Peak to Peak, S-W= Sync tip to white peak, B-W= Blanking to white peak)

Pin No. Signal Designation		Matching Value	EXT-1	EXT-2	EXT-3
1	AUDIO R output	500mVrms(Nominal),	0	0	NC
		Low impedance	(TV OUT)	(LINE OUT)	
2	AUDIO R input	500mVrms(Nominal), High impedance	0	0	0
3	AUDIO L output	500mVrms(Nominal),	0	0	NC
		Low impedance	(TV OUT)	(LINE OUT)	
4	AUDIO GND		0	0	0
5	GND (B)		0	0	0
6	AUDIO L input	500mVrms(Nominal), High impedance	0	0	0
7	B input	700mV _{B-W} , 75Ω	0	NC	NC
8	FUNCTON SW (SLOW SW)	Low: 0-3V, High: 8-12V, High impedance	0	0	0
9	GND (G)		0	0	0
10	-		NC	-	NC
10	SCL3		-	0	**
11	G input	700mV _{B-W} , 75Ω	0	NC	NC
12	- Giliput	7.00.11VB-W. 1.0.2	NC	-	NC
12	SDA3		_	0	-
13	GND (R)	 	0	0	0
14	GND (Y _s)	 	0	NC	NC
15	R / C input	R: 700mV _{B-W} , 75Ω		0	0
13	K / C Input	C: 300mV _{P-P} , 75Ω	(only R)	(only C)	(only C)
16	Ys input	Low: 0 - 0.4, High: 1 - 3V, 75 Ω	0	NC	NC
17	GND(VIDEO output)		0	0	0
18	GND(VIDEO input)		0	0	0
19	VIDEO output	1V _{s-w} (Negative going sync),	0	0	NC
19		75Ω	(TV)	(LINE OUT)	
20	VIDEO / Y input	1V _{s-W} (Negative going sync), 75Ω	0	0	0
21	COMMON GND		0	0	0

[Pin assignment]



SAFETY PRCATIONS

- The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock fire or other hazards.
- Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.

Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE: (1) side GND, the ISOLATED(NEUTRAL): (1) side GND and EARTH: (1) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.

If above note will not be kept, a fuse or any parts will be broken.

- If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
- 6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete exercise.
- 7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10κΩ 2W resistor to the anode button.
- 8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

9. Isolation Check

(Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, videovaudio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second.

(. . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)

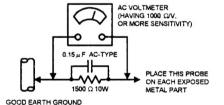
This method of test requires a test equipment not generally found in the service trade

(2) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage -across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).



SPECIFIC SERVICE INSTRUCTIONS

REPLACEMENT OF CHIP COMPONENT

ECAUTIONS

- 1. Avoid heating for more than 3 seconds.
- 2. Do not rub the electrodes and the resist parts of the pattern.
- 3. When removing a chip part, melt the solder adequately.
- 4. Do not reuse a chip part after removing it.

■ SOLDERING IRON

- 1. Use a high insulation soldering iron with a thin pointed end of it.
- 2. A 30w soldering iron is recommended for easily removing parts

■ REPLACEMENT STEPS

- 1. How to remove Chip parts
- · Resistors, capacitors, etc
- As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



(2) Shift with tweezers and remove the chip part.



Transistors, diodes, variable resistors, etc.

(1) Apply extra solder to each lead



(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



Note: After removing the part, remove remaining solder from the pattern.

2. How to install Chip parts

· Resistors, capacitors, etc

(1) Apply solder to the pattern as indicated in the figure



(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.



Transistors, diodes, variable resistors, etc

- (1) Apply solder to the pattern as indicated in the figure
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead A as indicated in the figure.



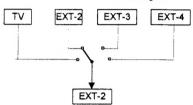
(4) Then solder leads B and C



No.51239C

FEATURES

- · By preference, users can select the picture size from PANORAMIC, REGULAR, FULL, 14:9 ZOOM, 16:9 ZOOM, 16:9 ZOOM SUB TITLE modes. When the TV unit received WSS picture signal, the picture can be changed to 16:9 ZOOM mode automatically
- The TELETEXT SYSTEM has a built-in TOP and FLOF system.
- Thanks to the newly employed DSP control micro computer. users can select 3D-PHONIC, and enjoy Surround effect at each mode



DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

- 1. Unplug the power cord.
- 2. Remove the 13 screws marked "A" as shown in the Fig. 1.
- 3. Withdraw the rear cover toward you.

REMOVING THE CHASSIS

- · After removing the rear cover
- 1. Slightly raise the both sides of the chassis by hand and remove the two claws under the both sides of the chassis from the front cabinet
- 2. Withdraw the chassis backward. (If necessary, take off the wire clamp, connectors etc.)

REMOVING THE AV TERMINAL BOARD

- · After removing the rear cover.
- 1. Remove the 6 screws marked "B" as shown in the Fig. 1.
- 2. While raising the claw marked "C", remove the top of the AV TERMINAL BOARD slightly in the direction of arrow "D" as shown in Fig. 2.

REMOVING THE SPEAKER BOX

- · After removing the rear cover.
- 1. Remove the 2 screws marked "E" as shown in Fig. 1.
- 2. Follow the same steps when removing the other hand speaker box.

NOTE: When removing the screws marked "E" of the speaker box, remove the lower side screw first, and then remove the upper screw.

In addition, BILINGUAL programs can be heard in their original language. . In accordance with the brightness in a room, the brightness

· Because this TV unit corresponds to multiplex broadcast, users

can enjoy music programs and sporting events with live realism.

- and/or contrast of the picture can be adjusted automatically to make the optimum picture which is easy on the eve.
- Users can make VTR dubbing of picture and sound by controlling the AV selector to select an optional source at the EXT-2 output shown in figure.

CHECKING THE PW BOARD

To check the back side of the PW Board.

- 1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
- 2) Erect the chassis vertically so that you can easily check the back side of the PW Board.

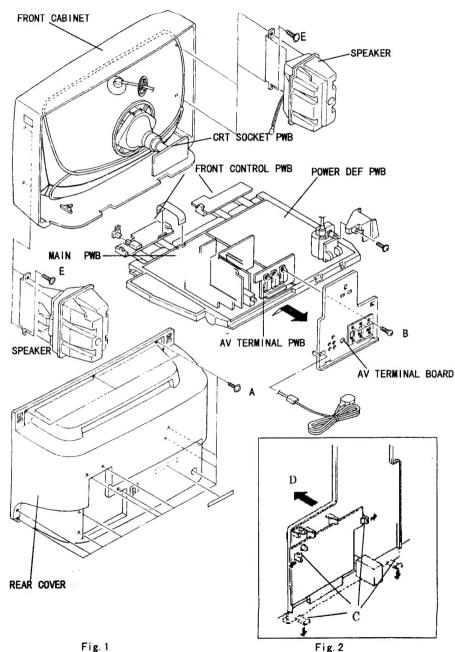
[CAUTION]

No.51239C

- · When erecting the chassis, be careful so that there will be no contacting with other PW Board
- · Before turning on power, make sure that the wire connector is properly connected.
- · When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS' Y) is connected to the CRT SOCKET PW board.

WIRE CLAMPING AND CABLE TYING

- 1. Be sure to clamp the wire.
- 2. Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.



REMOVING THE CRT

- *Replacement of the CRT should be performed by 2 or more persons
- · After removing the cover, chassis etc..,
- 1. Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig.3).
- 2. While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig.4.
- 3. Remove 4 screws marked by arrows with a box type screw driver as shown in Fig.4.
- . Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.
- 4. After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig.5.
- . The CRT should be assembled according to the opposite sequence of its dismounting steps.
- . The CRT change table should preferably be smaller that the CRT surface, and its height be about 35cm.

COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

. Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismounting them, be sure to coat silicon grease for electrical insulation as shown in Fig.6.

Wipe around the anode button with clean and dry cloth. (Fig.6) Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases dose not stick to the anode button. (Fig.7)

* Silicon grease product No. KS - 650N

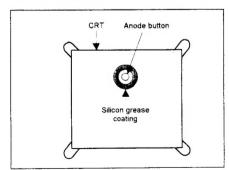
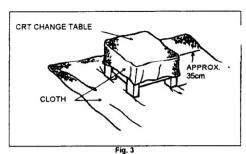


Fig. 6



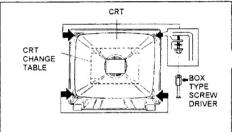
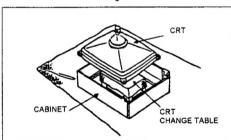


Fig. 4



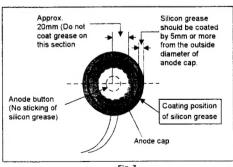


Fig. 7

REPLACEMENT OF MEMORY ICS

1. Memory ICs

This TV use memory ICs (EEP-ROM IC). In the memory ICs, there are memorized data for correctly operating the video and deflection circuits. When replacing memory ICs, be sure to use ICs written with the initial values of data

PROCEDURE

1) Press the INFORMATION key and the MUTE key of the REMOTE

3) While the SERVICE MENU is displayed, press the INFORMATION

4) Check the setting values of the SYSTEM CONSTANT SET of Table 1. If the value is different, select the setting item with the

6) Press the INFORMATION key twice, and return to the normal

key and MUTE key simultaneously, and the SYSTEM CONSTANT

FUNCTION UP/DOWN key, and set the correct value with the

2) The SERVICE MENU screen of Fig. 1 will be displayed.

2. Procedure for replacing memory ICs

(1) Power off Switch the power off and unplug the power code from the outlet. SERVICE MENU SERVICE MENU (2) Replace ICs. 2 V/C Be sure to use memory ICs written with the initial data values. 3 AUDIO 4 DEF 5 VSM PRESET 6 VPS 8 AUTO PROGRAM (CFF) 3) Power on Plug the power code into the outlet and switch the power on. 1-8 SELECT A EXT Fig.1 (4) Check and set SYSTEM CONSTANT SET:

SYSTEM CONSTANT SET

SYSTEM CONSTANT SET SOFT VER =(V* ****) COUNTRY EP .+ STORE A EXIT JVC MB WIDE VOO M37207MF-XXXSP

Fig.2

FUNCTION -/+ key

CONTROL UNIT simultaneously.

SET screen of Fig. 2 will be displayed.

5) Setting of receive channels Set the receive channel. For setting, refer to the OPERATING INSTRUCTIONS

5) Press the MENU key to memorize the setting value.

(6) User settings

Check the user setting values of Table 2, and if setting value is different, set the correct value. For setting, refer to the OPERATING INSTRUCTIONS

7) Setting of SERVICE MENU

Verify the setting items of the SERVICE MENU of Table 3, and reset For setting, refer to the SERVICE ADJUSTMENTS

NAME OF REMOTE CONTROL KEY

Names of key	key
INFORMATION	0
MUTE	×
MENU	©K
FUNCTION UP/DOWN	⊙
FUNCTION -/+	⊕⊙

SETTING VALUES OF SYSTEM CONSTANT SET (TABLE 1)

Setting item	Samina anna	Setting value				
Setting item	Setting content	AV-32WZ2EN	AV-32WZ2EP	AV-28WZ2EN	AV-28WZ2EP	
1. COUNTRY	→ EN → EP → EK	EN	EP	EN	EP	
2. INCH	28 → 32 → 24 —	32	32	28	28	
3. MODEL	→ WP2 — → WZ2 —	WZ2	WZ2	WZ2	WZ2	

USER SETTING VALUES (TABLE 2)

Setting item		Setting value	Settin	g item	Setting value
SUB POWER		ON		MODE	CINEMA/SPORT
CHANNEL		1 POSITION	PROLOGIC	LEVEL	CENTER
CHANNEL P	RESET	See;OPERATING INSTRUCTUONS.	PERATING 3D PHONIC		L/R
VOLUME		Appropriate sound volume		VOLUME	MAX
TV / EXT		TV		MODE	PHANTON
DISPLAY		CHANNEL DISPLAY	DOLBY PRO	TV SPEAKER	⊔R
ZOOM MODE	Ē	REGULAR	LOGIC	TEST TONE	OFF
POWER BAS	s	OFF		VOLUME	MAX
PIP			INSTALL	LANGUAGE	ENGLISH
	LFR	OFF	EXT SOURCE	EXT SETTING	ID:NO INPUT S-IN:NO INPUT
	VNR	OFF	EXT SOURCE	DUBBING	EXT-1→EXT-2
	4.3 AUTO ASPECT	PANORAMIC		SLEEP TIMER	OFF
PICTURE FEATURE	COLOR SYSTEM	TV:depend on PR FEATURES		BLUE BACK	ON
	PIP POSITION			CHILD LOCK	ID NO.0000 all channel off
	MULTI PICTURE			TINT	COOL
	PICTURE TILT	CENTER	PICTURE SETTING	SETTING	RESET
	BASS,TRE BALA	CENTER		ECO	OFF
	SPEAKER	ON			-
SOUND	HEAD PHONE VOLUME	20			
SETTING	HEAD PHONE OUTPUT	MAIN			
	HEAD PHONE TV SPEAKER	OFF			
DIGITAL SRR	OUND	OFF			

SERVICE MENU SETING ITEMS (TABLE 3)

Setting item	Setting value	Setting item	Setting value
1. IF 2. V/C	1. VCO 2. DELAY POINT 3. L. V. LEVEL 4. ATT 1. RGB BLK 2. R DRIVE 3. G DRIVE 4. B DRIVE 5. R LEVEL 6. G LEVEL 7. B LEVEL 8. BRIGHT	4. DEF.	1. V-SHIFT 2. V-SLOPE 3. V-SIZE 4. H-CENT 5. H-SIZE 6. EW-PIN 7. EW-COR 8. TRAPEZ 9. V-S.CR 10. EHT-COMP 11. CLAMP
3. AUDIO/OSD	9. CONT. 10. COLOUR(PAL/SECAM/NTSC) 11. HUE 12. PEAK DRIVE 13. GAMMA 14. VCOF 15. RELC 1. CONC LIMIT 2. A2 ID THR	5. VSM PRESET COOL NORMAL WARM	1. BRIGHT 2. CONT. 3. COLOUR 4. SHARP 5. HUE 6. R DRIVE 7. G DRIVE 8. B DRIVE 9. BASS 10. TREBLE
(Do not adjust)	3. JVC LOGO H 4. TEXT MONO H 5. TEXT MIX H	(Do not adjust) PIP (WZ model cannot be adjusted.)	VPS 1. MAIN BRIGHT 2. MAIN R-Y 3. MAIN B-Y 4. SUB BRIGHT 5. SUB R-Y 6. SUB B-Y 7. V-CENTER 8. H-CENTER
		8. AUTO PROGRAM (Do not adjust)	ON / OFF

SERVICE ADJUSTMENTS

BEFORE STARTING SERVICE ADJUSTMENT

- 1. There are 2 ways of adjusting this TV: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.
- 2. The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- 3. Turn on the power of the TV and measuring instrument for warming up for at least 30 minutes before starting adjustment.
- 4 Make sure that connection is correctly made to AC power
- 5. If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- 6. Never touch parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

7. Preparation for adjustment (presetting): Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT:

(1) PICTURE MODE (VSM)	COOL	
(2) SLEEP TIMER	OFF	
(3) DIGITAL SURROND	OFF	
(4) BALANCE	CENTER	
(5) ECO	OFF	
(6) ZOOM	REGULAR	

MEASUREING INSTRUMENT AND FIXTURES

- 1 DC voltmeter (or digital voltmeter)
- 2. Oscilloscope
- 3. Signal generator (Pattern generator) [PAL/SECAM/NTSC]
- 4. Remote control unit

ADJUSTMENT ITEMS

- Check of B1 voltage.
- Adjustment of FOCUS.
- IF circuit adjustment.
- VSM preset adjust setting.
- VIDEO / CHROMA circuit adjustment.
- DEFLECTION circuit adjustment.
- AUDIO circuit adjustment. (Do not adjust)

BASIC OPERATION OF SERVICE MENU

1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

2. SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings

(1) 1. IF This mode adjusts the setting values of the IF circuit.

(2) 2.V/C This mode adjusts the setting values of the VIDEO / CHROMA circuit. (3) 3.AUDIO/OSD·····This mode adjusts the setting values of the multiplicity SOUND circuit.

(4) 4.DEFThis mode adjusts the setting values of the DEFLECTION circuit for each aspect mode given below

PANORAMIC (50/60Hz) REGULAR (50/60Hz) 14:9 ZOOM (50/60Hz) 16:9 ZOOM (50/60Hz) 16:9 ZOOM SUB TITLE (50/60Hz) FULL (50/60Hz)

(5) 5.VSM PRSET This mode adjusts the initial setting values of COOL, NOMAL and WARM.

(VSM : Video Status Memory)

(6) 6.VPS This mode shows the monitor of the VPS and PDC (Do not adjust).

(VPS: Video Program System, PDC: Program Delivery Code)

(7) 7.PIP This mode adjusts the setting values of the PIP circuit (But WZ model cannot be adjusted.) (8) 8.AUTO PROGRAM By turning the power switch on, you can get the state of AUTO PROGRAM. (Do not adjust)

3. BASIC OPERATION OF SERVICE MENU

(1) How to enter SERVICE MENU

Press the iNFORMATION key and the MUTE key of the REMOTE CONTROL UNIT simultaneously, and the SERVICE MENU screen of Fig. 1 will be displayed.

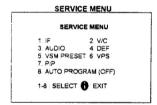


Fig.1

(2) Selection of SUB MENU SCREEN

Press one of keys 1~7 of the REMOTE CONTROL UNIT and select the SUB MENU SCREEN (See Fig. 3), form the SERVICE MENU.

SERVICE MENU - SUB MENU

1 IF

2. V / C

3. AUDIO/OSD

4. DEF.

5. VSM PRESET

6. VPS

7. PIP

8. AUTO PROGRAM

NEME OF REMOTE CONTOROL KEY			
Names of key	key		
INFORMATION	0		
MUTE	×		
MENU	(×)		
FUNCTION UP/DOWN	⊙ €		
FUNCTION -/+	⊙⊙		

Fig 2

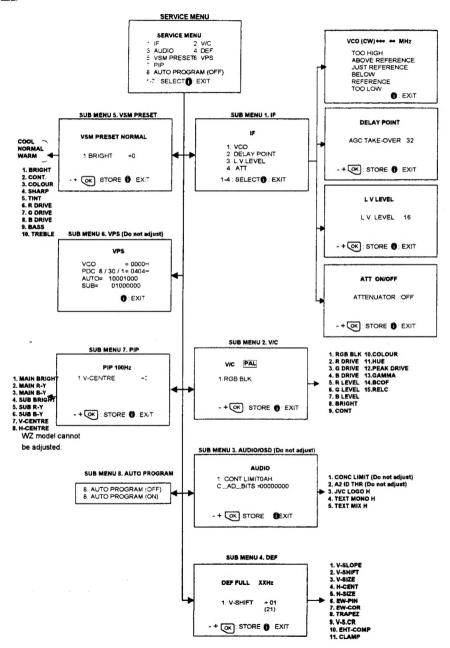


Fig. 3 SUB MENU SCREEN

(3)	Method of Setting	
	1) Method of Setting 1.IF	
1	[1. VCO]	
	① 1 Key · · · · · Sele	
	② 1 Key · · · · · Sele	
	3 The VCO (CW) screen will be displayed	in yellow when the AFC voltage is at a certain level and in blue when it is at other levels.
	4 INFORMATION Key · · · · · As y	ou press this twice, you will return to the SERVICE MENU.
Į	[2. DELAY POINT]	
	① 1 Key · · · · · Sele	ct 1.IF.
	② 2 Key · · · · · Sele	ct 2.DELAY POINT.
	③ FUNCTION -/+ · · · · · Set (adjust) the setting values of the setting items.
	MENU Key · · · · · Men	norize the set value.
	(Bef	ore storing the setting values in memory, do not press the CH, TV, POWER ON / OFF keys
		ou do, the values will not be stored in memory.)
	5 INFORMATION Key · · · · · Whe	n this is pressed twice, you will return to the SERVICE MENU.
	•	
2)	Method of setting 2.V/C, 3.AUDIO, 4.DEF,	6.VSM PRESET and 7.PIP.
	① 2~5 ,7 Key · · · · · Sele	ct one from 2. V/C, 3. AUDIO, 4. DEF, 5. VSM PRESET and 7.PIP.
	② FUNCTION UP/DOUN Key · · · · · Sele	ct setting items.
	③ FUNCTION -/+ · · · · · Set (adjust) the setting values of the setting items.
		en 1.RGB BLK of 2.V/C is selected, press the FUNCTION-/+ key, and the whole will
	chan	ge to a black picture. Press the 2 key, and the screen will return to the original screen.)
	MENU Key · · · · · Mer	
		ore storing the setting values in memory, do not press the CH, TV, POWER ON / OFF key -
		u do, the values will not be stored in memory.)
	5 INFOMATION Key · · · · Ret	urn to the SERVICE MENU screen.
		*
3)) Method of setting 6.VPS and 8.AUTO PRO	
		mode displayed monitor of VPS systems. Do not adjust
		in the MAIN POWER is turned on with the state of AUTO PROGRAM ON, you get a mode
		initializes every existing set value including language selection. Because this mode is set re factory upon completion of the adjustment, you need not to use it for service. Do not
		e factory upon completion of the adjustment, you need not to use it for service. So not list in this mode.
	adju	at ill tills mode.

(4) Release of SERVICE MENU

1) After completing the setting, return to the SERVICE MENU, then again press the INFORMATION key.

No.51239C

15

POWER SUPPLY CHECK

item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 voltage	Signal generator DC voltmeter	TP-91(B1) TP-E [X connector in POWER DEF PWB]		1. Receive a whole black signal. 2. Connect a DC voltmeter to TP-91(B1) and TP-E. 3. Make sure that the voltage is DC141.4±2.0V.

FOCUS ADJUSTMENT

16

Adjustment of S			
-	e e	FOCUS VR [IN HVT] FOCUS 2 BLACK FOCUS 2	 [32 model] By turning the black VR FOCUS 2, adjust the picture so that the 5th vertical line from the left side of the cross-hatch picture becomes thinnest. By turning the red VR FOCUS 1, adjust the picture so that the 3rd horizontal line from the upper side of the cross-hatch picture becomes uniform at the line center and its periphery. Carry out adjustment by repeating the steps 2 and 3 above. Make sure that when the screen is darkened, the lines remain in good focus. Receive a cross-hatch signal. While watching the screen, adjust the FOCUS VR to make the vertical and horizontal lines as fine and sharp as possible. Make sure that when the screen is darkened, the lines remain in good focus.

IF CIRCUIT ADJUSTMENT

item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of I/CO MAIN)	Remote control unit		P. CW TRANSF. (T050) P.L-VL CW TRIM C (C062) [in IF PWB]	Do not make any adjustment unless the adjustment is out way and you cannot get correct PICTURE. Select 1.IF from the SERVICE MENU. Press 1 key and select 1.VCO. Select a receivable broadcast channel with the CHANNEL key. Turn the core of P. CW TRANSF, until the colour of the
	VCO(CW) SEE TOO HIGH ABOVE REFERS JUST REFERS! BELOW REFER TOO LOW	ENCE ICE	YELLOW	characters TOO HIGH displayed on the screen changes fro blue to <u>Yellow</u> . (Step 1) 5. Turn the core of P. CW TRANSF, until the colour of the characters TOO LOW changes from blue to <u>Yellow</u> . (Step 2) 6. Then slowly turn back the core of P. CW TRANSF, until the colour of the characters JUST REFFERENCE changes from blue to <u>Yellow</u> . (Step 3) 7. In the district SECAM L broadcast channel with the CHANNE key and adjust the P.L-VL CW TRIM. C in same manner as flabove step. And necessary, readjust P. CW. TRANSF. 8. Press the INFORMATION key three times to return to norm screen.
TOO HIGI ABOVE R JUST REF	EFERENCE BI FERENCE BI REFERENCE BI	1 →2 ellow → Blue ue → Blue ue → Blue ue → Blue	e → Blue e → <u>Yellow</u>	Perform CHANNEL PRESET again, and make sure that each broadcast is being received properly.
Adjustment of DELAY POINT	Remote control unit		DELAY POINT (AGC TAKE-OVER)	1. Receive a black and white signal (colour off). 2. Select 1.IF from the SERVICE MENU. 3. Select 2.DELAY POINT by pressing the 2 key on the remo control.
	ng item ment item)	Variable range	Initial setting value	 Adjust the FUNCTION - or + key until video noise disappears. Press the MENU key and memorize the set value. Turn to other channels and make sure that there are not appears.
DELAY P (AGC TA	OINT KE-OVER)	0~63	30	irregularities.
Adjustment of .,V LEVEL EP MODEL DNLY)	Remote control unit Oscilloscope		L, V LEVEL	Receive a color bar signal. (SECAM-L,75% white) Connect the oscilloscope to EXT-1 PIN 19. Select 1.IF from the service Menu. Select 3.L.V LEVEL by pressing the 3 key on the remo

VSM PRESET SETTING

Item	Measuring instrument	Test point	Adjustment part		D	escription	
Setting of VSM PRESET ADJUST	Remote control unit		1. BRIGHT 2. CONT. 3. COLOUR 4. SHARP 5. HUE 6. R DRIVE 7. G DRIVE 8. B DRIVE 9. BASS 10. TREBLE	Select 5.VSI Adjust the F values of 1.8 table. Press the Mi Respectively WARM, and Press the Mi	M PRESET fr UNCTION U BRIGHT ~ 1 ENU key and v select the V make similar ENU key and	om the SERVIC P/DOWN and -/ 0.TREBLE to the memorize the s SM PRESET mo adjustment as i memorize the s	+ key to bring the ne values shown in set value. ode for REGULAR n 3 above.
			Setting item	SM preset mode	COOL	REGULAR	WARM
			1. BRIGHT SETTING VALUE		+0	+0	+0
			2. CONT. SETTING	VALUE	+13	+10	+2
			3. COLOUR SETTING	VALUE	+2	+0	-2
			4. SHARP SETTING	VALUE	+0	+0	-2
:			5. HUE SETTING	VALUE	+0	+0	+0
			6. R DRIVE SETTING	VALUE	-5	+0	+14
			7. G DRIVE SETTING	VALUE	+11	+0	+15
			8. B DRIVE SETTING	VALUE	+0	+0	-6
			9. BASS SETTING	VALUE	+0	+0	0
			10.TREBLE SETTING VALUE		+0	+0	0
				SETTING V	ALUES OF V	SM PRESET	

VIDEO/CHROMA CIRCUIT ADJUSTMENT

The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.

The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

Setting Item (Adjustment Item)	Initial setting value
1.RGB BLK	
2.R.DRIVE	+12
3.G.DRIVE	+2
4.B.DRIVE	+0
5.R.LEVEL	+0
6.G.LEVEL	+0
7.B.LEVEL	+0
8.BRIGHT	-10
9.CONTRAST	-5

Colour system	Initial setting value				
Setting item	PAL/ SECAM	NTSC 3.5 NTSC 4.4			
10.COLOUR	-4/0	0			
11.HUE		0			
12.PEAK DRIVE	+5				
13.GAMMA	-21				
14.VCOF	+0				
16.RELC	+0				

item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of WHITE BALANCE	Signal generator Remote control unit		2.R DRIVE 3.G RIVE 6.R LEVEL 6.G LEVEL 7.B LEVEL	Set the PICTURE MODE to COOL. Receive a black and white signal(colour off). Select 2. V/C from the SERVICE MENU. Modify 2. R DRIVE and 3.G DRIVE data to adjust the white balance (high light) Modify 5. R LEVEL, 6. G LEVEL and 7. B LEVEL data to adjust the white balance of low light. Components. Press the MENU key and memorize the set value.
Adjustment of SUB BRIGHT	Remote control unit		8.BRIGHT	1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 8.BRIGHT with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION -/+ key. 5. If the brightness is not the best with the initial setting value make fine adjustment until you get the best brightness. 6. Press the MENU key and memorize the set value.
Adjustment of SUB CONT.	Remote control unit		S.CONT.	1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 9.CONT with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION - or + key. 5. If the contrast is not the best with the initial setting value, mak fine adjustment until you get the best contrast. 6. Press the MENU key and memorize the set value.

Item	Measuring instrument	Test point	Adjustment part	Description				
Adjustment Remote control (Remote control unit		10.COLOUR (PAL~NTSC)	[Method of adjustment without using measuring instrument]				
COLOUR I			PAL COLOUR	(PAL COLOUR) 1. Receive PAL broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 10.COLOUR with the FUNCTION UP/DOWN key. 4. Set the initial setting value for PAL COLOUR with the FUNCTION - or + key. 5. If the colour is not the best with the initial set value, make fine adjustment until you get the best colour. 6. Press the MENU key and memorize the set value.				
		SECAM COLOUR	(SECAM COLOUR) 1. Receive a SECAM broadcast. Make fine adjustment of SECAM COLOUR in the same manner as for above.					
	NTSC COLOUR	(NTSC 3.58 COLOUR) 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal from the EXT terminal. 2. Make similar fine adjustment of NTSC 3.58 COLOUR in the same manner as for above.						
				(NTSC 4.43 COLOUR) 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.				

item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB COLOUR II	Signal generator #	TP-47B TP-E() [CRT SOCKET	19.COLOUR (PAL~NTSC)	[Method of adjustment using measuring instrument]
Remote	Remote control unit	PWB]	PAL COLOUR	(PAL COLOUR) 1. Receive a PAL full field colour bar signal(75% white). 2. Select 2.V/C from the SERVICE MENU. 3. Select 5.COLOUR with the FUNCTION UP/DOWN key. 4. Set the initial setting value of PAL COLOUR with the FUNCTION - or + key. 5. Connect the oscilloscope between TP-47B and TP-E 6. Adjust PAL COLOUR and bring the value of (A) in the illustration to 8V (voltage difference between white (w) and blue (B)). 7. Press the MENU key and mermorize the setting value.
		N) (-)	SECAM COLOUR	(SECAM COLOUR) 1. Receive a SECAM full field colour bar signal(75% white). 2. Set the initial setting value of SECAM COLOUR with the FUNCTION → key. 3. Adjust SECAM COLOUR and bring the value of (A) of the illustration to 6∨. 4. Press the MENU key and memorize the setting value.
, T	Cy Mg B	(*)	NTSC COLOUR	(NTSC 3.58 COLOUR) 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Set the initial setting value of NTSC 3.58 COLOUR with the FUNCTION -/+ key. 3. Adjust NTSC 3.58 COLOUR and bring the value of (A) of the illustration to 2V(W~8). 4. Press the MENU key and memorize the setting value.
				(NTSC 4.43 COLOUR) 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of	Remote control unit		11.HUE	[Method of adjustment without using measuring instrument]
SUB TINT !			NTSC 3.58 TINT	[NTSC 3.58 TINT] 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Select 2.V/C from the SERVICE MENU. 3. Select 11.HUE with the FUNCTION UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 TINT with the FUNCTION -/- key. 5. If you cannot get the best tint with the initial setting value, make fine adjustment until you get the best tint. 6. Press the MENU key and memorize the set value.
			NTSC 4.43 TINT	[NTSC 4.43 TINT] 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.
Adjustment of	Signal generator	TP-47B TP-E	11.HUE	[Method of adjustment using measuring instrument]
SUB TINT II	Oscilloscope Remote control unit	[CRT SOCKET PWB]	NTSC 3.58 TINT	[NTSC 3.58 TINT] 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Select 2.V/C from the SERVICE MENU. 3. Select 11.HUE with the FUNCTION UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 TINT with the FUNCTION - or + key. 5. Connect the oscilloscope between TP-47B and TP-E 6. Adjust NTSC 3.58 TINT to bring the value of (A) in the illustration to OV (voltage difference between white (W) and magenta(Mg)). 7. Press the MENU key and memorize the setting value
•	Cy Mg B T	(-) A (+)	NTSC 4.43 TINT	[NTSC 4.43 TINT] 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

DEFLECTION CIRCUIT ADJUSTMENT

There are 3 modes of the adjustment (1) 50Hz mode (①PANORAMIC ②FULL ③SUBTITLE), (2) 60Hz mode (each aspect mode) ······ depending upon the kind of signals (vertical frequency 50Hz / 60Hz).

- When the 50Hz PANORAMIC mode has been established, the setting of other modes will be done automatically.
 However, if the picture quality has not been optimized, adjust each mode again, respectively.
- The adjustment using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- Regular and Zoom switching is conducted not by the Deflection circuit, but by the 100 Hz PWB. Therefore, the deflection system cannot be adjusted in these modes.

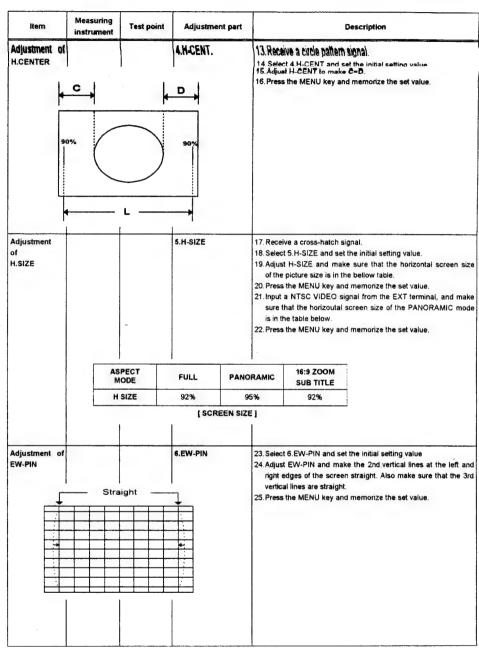
[32 model]

		Initial setting value							
Setting item	Adjustment name	FU	ILL	PANO	RAMIC	SUBTITLE			
		50Hz	60Hz	50Hz	60Hz	60Hz	60H		
1.V- SHIFT	Vertical center	3	0	0	0	0	0		
2.V- SLOPE	Vertical def. Start position	14	-7	2	-9	0	2		
3.V-SIZE	Vertical height	33	2	-1	-1	20	-1		
4.H-CENT	Horizontal center	23	-3	0	-1	0	-2		
5.H-SIZE	Horizontal width	23	-1	8	-1	-1	0		
6.EW-PIN	Side pin correction	42	0	-3	0	3	0		
7.EW-COR	Side pin four corner correction	36	0	-10	-8	-7	0		
8.TRAPEZ	Trapezoidal distortion correction	3	0	-1	-1	0	1		
9.V-S.CR	Vertical height correction	8	0	12	0	5	0		
10.EHT-COMP	Size Regulation	30	0	0	0	0	0		
11.CLAMP	CLAMP Position	0	0	0	0	0	0		

[28 model]

		Initial setting value							
Setting item	Adjustment name	FU	ILL	PANO	RAMIC	SUB	TITLE		
-		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		
1.V- SHIFT	Vertical center	3	0	0	0	3	. 0		
2.V- SLOPE	Vertical def. Start position	14	-7	2	-9	0	2		
3.V-SIZE	Vertical height	35	2	3	0	14	5		
4.H-CENT	Horizontal center	25	-3	0	-3	0	-3		
5.H-SIZE	Horizontal width	29	-1	7	-1	0	-1		
6.EW-PIN	Side pin correction	30	-1	4	3	9	. 2		
7.EW-COR	Side pin four corner correction	10	-3	18	6	10	3		
8.TRAPEZ	Trapezoidal distortion correction	3	1	0	0	0	0		
9.V-S.CR	Vertical height correction	8	0	12	0	5	0		
10.EHT-COMP	Size Regulation	25	0	0	0	0	0		
11.CLAMP	CLAMP Position	0	D	0	0	0	0		

Item	Measuring instrument	Test point	Adjustment p	art		Description
Adjustment of J-SHIFT and J-SLOPE	Signal generator Remote		A B	1. Ro 2. So 3. So 4. Ao 5. IF	elect 4.DEF from the elect 1.V-SHIFT with tjust V-SHIFT to mak it is not enough to ac choose "2.V=SLOPE	the FUNCTION UP/DOWN key. e A = B.
Adjustment of V-SIZE	Scree	n size	3.V. SIZE	8. So pii 10.Pi 11.In su thure 12.Pi	djust V-SIZE and make cture size is in the be ress the MENU key a put a NTSC VIDEO s are that the vertical so e table below.	et the initial setting value. The sure that the vertical screen size of the
	MOD	E	FULL PA	NORAMIC	16:9 ZOOM SUB TITLE	
	SCRE		92%	87%	70%	
	SCRE		92%	87%	83%	



Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of EW-COR			7.EW-COR	 ★ No alignment, but adjust this mode if result of no alignment is too bad. 26. Select 7 EW-COR and set the initial setting value. 27. Adjust EW-COR and make the vertical lines at the four corner of the screen straight. 28. Press the MENU key and memorize the set value.
Adjustment of TRAPEZ		—— Para	8.TRAPEZ	[50Hz PANORAMIC mode] 29. Receive a cross-hatch signal of vertical frequency 50Hz. 30. Select 4.DEF from the SERVICE MENU. 31. Select 8. TRAPEZ with the FUNCTION UP/DOWN key. 32. Set the initial setting value of TRAPEZ with the FUNCTION - o + key. 33. Adjust TRAPEZ and bring the VERTICAL lines at the right and
				Adjust TRAPEZ and bring the VERTICAL lines at the right left edges of the screen parallel. 34. Press the MENU key and memorize the set value.
Adjustment of V-S.CR			9.V-S.CR	No alignment, but adjust this mode if result of no alignment is too bad. 35. Select 9.V-S. CR and set the initial setting value. 36. Adjust each item to get exact square of cross-hatch pattern. 37. Press the MENU key and memorize the set value.
				At first the adjustment in 50Hz-PANORAMIC mode should be done, then the data for the other zoom mode is corrected in the respective value at the same time. And confirm the deflection adjustment initial setting value in 60Hz(NTSC EXT mode PANORAMIC mode. If the adjustment in 50Hz each zoom mode has been done and stored, the data for the same aspec modes in 60Hz is corrected in the respective value. Only the data for the other aspect mode in 60Hz is corrected for itself.

AUDIO CIRCUIT ADJUSTMENT

3. AUDIO / OSD

Setting item	Variable range	fixed value
1. CONC LIMIT (Do not adjust)	00H∼FFH	DAH
2. A2 ID THR <i>(Do not adjust)</i>	00H∼FFH	19H

OSD horizontal position

ltem	Test point	Adjustment part		Description
JVC LOGO H		3.JVC LOGO H	1.	Select 3.AUDIO / OSD from SERVICE MENU.
			2.	Select 3.JVC LOGO H with the FUNCTION -/+ key.
			3.	Confirm that JVC LOGO H=00H
		4.	Press the MENU Key, and memorize the set values.	
TEXT MONO H		4.TEXT MONO H	1.	Select 3.AUDIO / OSD from SERVICE MENU.
	1		2.	Select 4.TEXT MONO H with the FUNCTION -/+ key.
00	100 00:0	0:00	3.	Push text key to get a picture of "TEXT-MONO H".
01			4.	Push "SUBPAGE" key, it gets a picture as shown left.
0			5.	Adjust the value of the distance "d" as shown left with the
. 0	INDEX			FUNCTION UP/DOWN key.
				Push "SUBPAGE" key to check adjustment every adjust.
18			6.	Press the MENU Key, and memorize the set values.
19				
d				
MOD	EL	d		
ALL MO	DELS 5	~20mm		
	1			

No.51239C

28

PARTS LIST

CAUTION

- The parts identified by the A symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.
- As a rule, the resistors and capacitors which are indicated as shown in "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board.

When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS".

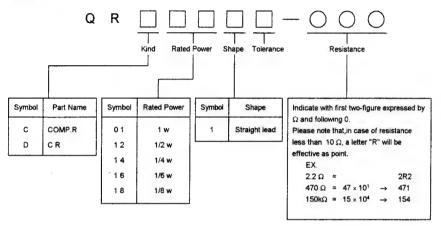
ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

	RESISTORS		CAPACITORS
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	ММ САР.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CHVR	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CHAL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

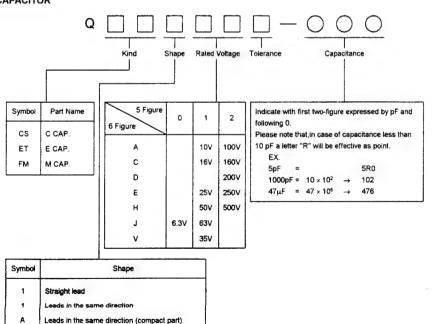
	TOLERANCES								
F	G	J	к	М	N	R	н	z	P
± 1%	± 2%	± 5%	± 10%	± 20%	± 30%	+ 30% - 10%	+ 50% - 10%	+ 80% - 20%	+ 100%

HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS

■ RESISTOR



■ CAPACITOR



CONTENTS

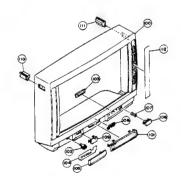
■ USING P.W. BOARD & REMOTE CONTROL UNIT · · · · · · · · · · · · · · · · · · ·	
■ EXPLODED VIEW PARTS LIST [AV-28WZ2EN(A)/AV-28WZ2EP(A)]····································	2
■ EXPLODED VIEW PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]····································	3
■ EXPLODED VIEW ····································	l4
	•
■ PRINTED WIRING BOARD PARTS LIST [AV-28WZ2EN(A)/AV-28WZ2EP(A)]	
MAIN PW BOARD ASS'Y (SMB-1002B-U2)	35
SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)	38
IF PW BOARD ASS'Y (SMB0F701B-U2)	39
100Hz PW BOARD ASS'Y (SMB0Z002B-U2)	40
POWER DEF PW BOARD ASS'Y (SMB-2002B-U2)	43
CRT SOCKET PW BOARD ASS'Y (SMB-3002B-U2)	45
AUDIO PW BOARD ASS'Y (SMB-6001B-U2)	47
FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2)	
DOLBY PW BOARD ASS'Y(SMB0D002B-U2)	+8
AV TERMINAL PW BOARD ASS'Y (SMB0J001B-U2)	00
AUTO ASPECT MODULE PW BOARD ASS'Y (SJF0W001A(U))	30
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)] • MAIN PW BOARD ASS'Y (SMB-1003B-U2)	51
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)] • MAIN PW BOARD ASS'Y (SMB-1003B-U2) • SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)	51 54
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)] • MAIN PW BOARD ASS'Y (SMB-1003B-U2) • SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) • IF PW BOARD ASS'Y (SMB0F701B-U2)	51 54 55
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)] • MAIN PW BOARD ASS'Y (SMB-1003B-U2) • SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) • IF PW BOARD ASS'Y (SMB0Z002B-U2) • 100Hz PW BOARD ASS'Y (SMB0Z002B-U2)	51 54 55 56
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)] • MAIN PW BOARD ASS'Y (SMB-1003B-U2) • SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) • IF PW BOARD ASS'Y (SMB0F701B-U2) • 100Hz PW BOARD ASS'Y (SMB0Z002B-U2) • POWER DEF PW BOARD ASS'Y (SMB-2003B-U2)	51 54 55 56 59
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)] • MAIN PW BOARD ASS'Y (SMB-1003B-U2) • SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) • IF PW BOARD ASS'Y (SMB0F701B-U2) • 100Hz PW BOARD ASS'Y (SMB2002B-U2) • POWER DEF PW BOARD ASS'Y (SMB-2003B-U2) • CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2)	51 54 55 56 59
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)] • MAIN PW BOARD ASS'Y (SMB-1003B-U2) • SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) • IF PW BOARD ASS'Y (SMB0F701B-U2) • 100Hz PW BOARD ASS'Y (SMB2002B-U2) • POWER DEF PW BOARD ASS'Y (SMB-2003B-U2) • CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2) • AUDIO PW BOARD ASS'Y (SMB-6001B-U2)	51 54 55 56 59 52
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)] ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2) ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) ■ IF PW BOARD ASS'Y (SMB0F701B-U2) ■ 100Hz PW BOARD ASS'Y (SMB02002B-U2) ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2) ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2) ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2) ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2)	51 54 55 56 59 52 53
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)] ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2) ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) ■ IF PW BOARD ASS'Y (SMB05701B-U2) ■ 100Hz PW BOARD ASS'Y (SMB02002B-U2) ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2) ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2) ■ AUDIO PW BOARD ASS'Y (SMB-6011B-U2) ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2) ■ DOLBY PW BOARD ASS'Y (SMB00002B-U2)	51 54 55 56 59 52 53 53
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)] ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2) ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) ■ IF PW BOARD ASS'Y (SMBD2702B-U2) ■ 100Hz PW BOARD ASS'Y (SMBD2002B-U2) ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2) ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2) ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2) ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2) ■ DOLBY PW BOARD ASS'Y (SMBD0002B-U2) ■ AV TERMINAL PW BOARD ASS'Y (SMBD0001B-U2)	51 54 55 56 59 52 53 54 56
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)] ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2) ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) ■ IF PW BOARD ASS'Y (SMB05701B-U2) ■ 100Hz PW BOARD ASS'Y (SMB02002B-U2) ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2) ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2) ■ AUDIO PW BOARD ASS'Y (SMB-6011B-U2) ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2) ■ DOLBY PW BOARD ASS'Y (SMB00002B-U2)	51 54 55 56 59 52 53 54 56
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)] ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2) ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) ■ IP PW BOARD ASS'Y (SMB0F701B-U2) ■ 100Hz PW BOARD ASS'Y (SMB02002B-U2) ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2) ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2) ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2) ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2) ■ DOLBY PW BOARD ASS'Y (SMB00002B-U2) ■ AV TERMINAL PW BOARD ASS'Y (SMB0J001B-U2) ■ AUTO ASPECT MODULE PW BOARD ASS'Y (SJF0W001A(U))	551 554 555 566 569 532 533 534 566 566
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)] ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2) ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) ■ IF PW BOARD ASS'Y (SMB0F701B-U2) ■ 100Hz PW BOARD ASS'Y (SMB02002B-U2) ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2) ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2) ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2) ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2) ■ DOLBY PW BOARD ASS'Y (SMB00002B-U2) ■ AV TERMINAL PW BOARD ASS'Y (SMB0J001B-U2) ■ AUTO ASPECT MODULE PW BOARD ASS'Y (SJF0W001A(U)) ■ REMOTE CONTROL UNIT PARTS LIST	51 54 55 56 66 59 32 33 54 66 66
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)] ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2) ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) ■ IF PW BOARD ASS'Y (SMB0Z002B-U2) ■ 100Hz PW BOARD ASS'Y (SMB0Z002B-U2) ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2) ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2) ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2) ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2) ■ DOLBY PW BOARD ASS'Y (SMB0D002B-U2) ■ AV TERMINAL PW BOARD ASS'Y (SMB0D001B-U2) ■ AUTO ASPECT MODULE PW BOARD ASS'Y (SJF0W001A(U)) ■ REMOTE CONTROL UNIT PARTS LIST ■ PACKING	51 54 55 56 56 59 32 53 54 56 56 66 66
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)] ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2) ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) ■ IF PW BOARD ASS'Y (SMB0F701B-U2) ■ 100Hz PW BOARD ASS'Y (SMB02002B-U2) ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2) ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2) ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2) ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2) ■ DOLBY PW BOARD ASS'Y (SMB00002B-U2) ■ AV TERMINAL PW BOARD ASS'Y (SMB0J001B-U2) ■ AUTO ASPECT MODULE PW BOARD ASS'Y (SJF0W001A(U)) ■ REMOTE CONTROL UNIT PARTS LIST	51 54 55 56 56 59 32 53 54 56 56 66 66

USING P.W. BOARD & REMOTE CONTROL UNIT

Model	AV-28WZ2EN(A)	AV-32WZ2EN(A)
P.W.B ASS'Y	AV-28WZ2EP(A)	AV-32WZ2EP(A)
MAIN P.W.B	SMB-1002B-U2	SMB-1003B-U2
POWER DEF P.W.B	SMB-2002B-U2	SMB-2003B-U2
CRT SOCKET P.W.B	SMB-3002B-U2	SMB-3001 B-U2
AUDIO P.W.B	SMB-6001B-U2	4
FRONT CONTROL UNIT	SMB-8002B-U2	4
SUB TEXT P.W.B	SMB-1111B-U2	4
DOLBY P.W.B	SMB0D002B-U2	4
100Hz P.W.B	SMB0Z002B-U2	4
AV TERMINAL P.W.B	SMB0J001B-U2	4
IF P.W.B	SMB0F701B-U2	4
AUTO ASPECT MODULE P.W.B	SJF0W001A(U)	4
REMOTE CONTROL UNIT	RM-C793-1E	4

⚠ Ref. No.	Part No.	Part Name	Description	Local
∆ V01	₩66ESF002X44	ITC TUBE (C)		
△ L01	CELD061-001J2	DEGAUSSING COIL		*
A 12551	CETHO20-00AJ1	HVT (SERVICE)		*
1	CHGB0029-0B	BRAIDED ASSY		*
2	CHGB0017-0B	BRAIDED SUB ASSY	× 2	*
3	CM36311-001	KNOB CAP		
4	CM12925-003-E	CONTROL BASE		*
5	CM12925-004-E	CONTROL BASE		*
6	CM12923-A01-E	CHASSIS BASE		*
ž	CM12924-C02-E	AV TERMINAL BASE		*
8	SBSB3012M	TAPPING SCREW	×7	*
11	CHFB125-06BD	FFC WIRE		*
12	CHGYOO17-OA-YS	ANTENNA CABLE		*
△ 13	CE41950-001J1	ANODE CABLE ASSY		*
∆ 14	AEEMP001-185	POWER CORD		*
△ 15	CM46618-A01-E	POWER CORD CLAMP		*
16	CHGS0075-AB	S. P WIRE ASSY		*
17	CE42112-002	PALJ CONNECTOR		
18	CEBSF10P-05KJ6	SPEAKER	× 2 SP01/02	*
21	2528MXSP-SZE-E	DOME SPEAKER	× 2	*
22	CM12921-001-E	DOME ADAPTER	× 2	*
23	CM12922-001-E	DOME BOX	× 2	*
A 24	CM12582-A04-E	REAR COVER		*
25	GBSA4016N	TAPPING SCREW	× 13	*
△ 26	LC20093-003A-U	RATING LABEL	AV-28WZ2EN (A) ONLY	*
△ 27	LC20092-003A-U	RATING LABEL	AV-28WZ2EN (A)	*
△ 27	LC20094-003A-U	RATING LABEL	AV-28WZ2EP(A)	*
28	QQR0778-001	CORE FILTER		
29	QQR0490-001	NOISE FILTER	× 2	
30	CE41355-00B	CORE ASSY	×4	
31	QQR0804-001	CORE FILTER		
100	CM12833-A08-E	FRONT CABINET AS	Include NO. 101~112	*
101	CM12966-001-E	CENTER PANEL		*
102	CM48229-00A	DOOR LATCH		
103	CM36223-002-H	L. E. D. LENS		*
104	CM36587-002	OPERATION SHEET		
105	CM23132-001	DOOR	05041.05	
106	CM36225-010	POWER KNOB	SERVICE	
107	CM35235-003-H	SPRING		
108	CM48125-001	JVC MARK		•
109	CM48076-002-H	C. D. S. WINDOW	ochules	*
110	CM35865-00U	INSULATER ASSY	SERVICE	:
111	CM35865-00V	INSULATOR ASSY R		:
112	CM36171-00A-H	SPEAKER NET	× 2	•

EXPLODED VIEW LIST



EXPLODED VIEW LIST AVARIAZERANA (AVARIAZERIA) A Ref. No. Part No. Description Part Name Local **△ V01** W76ESF031X44 ITC TUBE (C) **△ L01** DEGAUSSING COIL CELD062-001J2 L03 CELD904-001 ROTATION COIL CHGB0029-0C BRAIDED ASSY CHG80017-08 BRAIDED SUB ASSY × 2 CM36311-001 KNOB CAP CONTROL BASE CM12925-001-E CONTROL BASE CHASSIS BASE CM12925-002-E CM12923-A01-E CM12924-C02-E AV TERMINAL BASE SBSB3012M TAPPING SCREW ×7 CM23076-801-E TRANSF. HOLDER × 3 10 GBSA4016N TAPPING SCREW CHFB125-12BD FFC WIRE 11 ANTENNA CABLE CHGY0017-0A-YS 12 \triangle 13 CE41950-001J1 ANODE CABLE ASSY AEEMP001-185 POWER CORD POWER CORD CLAMP 15 CM46618-A01-E CHGS0075-AA S. P WIRE ASSY CE42112-002 PALJ CONNECTOR CEBSF10P-05KJ6 SPEAKER × 2 SP01/02 DOME SPEAKER 21 2528MXSP-SZE-E 22 CM12921-001-E DOME ADAPTER × 2 23 CM12922-001-E × 2 Δ 24 CM12737-003-E REAR COVER 25 GBSA4016N TAPPING SCREW × 13 $\triangle \triangle \triangle$ 26 27 27 AV-32WZZEN (A) ONLY LC20093-002A-U RATING LABEL LC20092-002A-U RATING LABEL AV-32WZZEN (A) LC20094-002A-U RATING LABEL AV-32WZZEP (A) QQR0778-001 CORE FILTER 29 QQR0490-001 NOISE FILTER × 2 CE41355-00B CORE ASSY 31 QQR0804-001 CORE FILTER Include NO. 101~112 100 CM12587-A00-E FRONT CABINET AS

CENTER PANEL

OPERATION SHEET

SERVICE

SERVICE

SERVICE

×2

DOOR LATCH

L. E. D. LENS

POWER KNOB

C. D. S. WINDOW

SPEAKER NET

INSULATER ASSY

INSULATOR ASSY

SPRING

JVC MARK

EXPLODED VIEW

101

102

103

104

105

106

107

108

109

110

111

112

CM12966-001-E

CM36223-002-H

CM48229-00A

CM36857-001

CM23131-A01

CM36225-010

CM48125-001

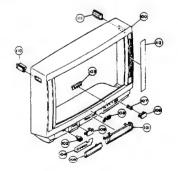
CM35865-00U

CM35865-00V

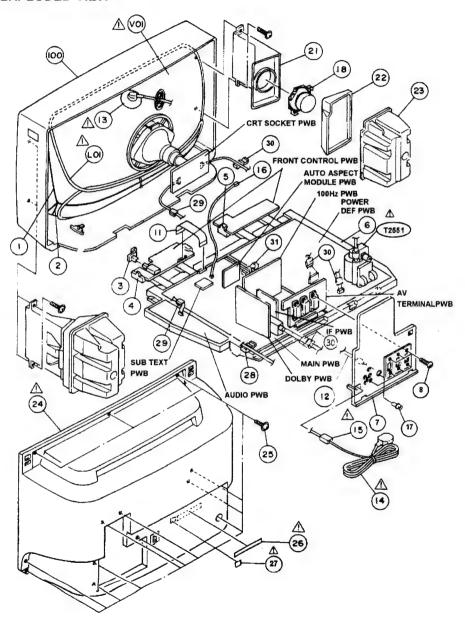
CM35235-003-H

CM48076-002-H

CM36172-00A-S



EXPLODED VIEW



PRINTED WIRING BOARD PARTS LIST JAV-28WZ2EN/AVAV-28WZ2ED/AY

Symbol No.	Part No.	Part Name	Descripti	on		Lo
RESIST	TOR					
R1001	QRD12CJ-474SX	C R	470k Ω	1/2W	J	
R1206	QRG019J-101S	OM R	100 Ω	1 W	J	
R1229	QRD123J-181SX	CR	180 Ω	1/2W	J	
R1231	QRG019J-101S	OM R	100 Ω	1/2W	J	
			100 \$2	1 11	J	
R1748	QRB069J-103	NET. R				
CAPAC						
01001	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	
01002	QETC1HM-107Z	E CAP.	100 μ F	50V	M	
01003	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	
01004	QETN1CM-107Z	E CAP.	100 µ F	16V	M	
01005	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
01006	QETN1CM-227Z	E CAP.	220 µ F	16V	M	
01008	QETN1HM-106Z	E CAP.	10 µ F	50V	W	
01011	QETN1CM-476Z	E CAP.	47 μ F	167	Ñ	
	0070400 40447	0.040		asv	,	
01012	QCZ0120-104MZ	C CAP.	0.1μF	25V	2	
01201	GETN1CM-227Z	E CAP.	220 μ F	16V	M	
1203-04	GETNIHM-105Z	E CAP.	1 μ F	50V	M	
1205-06	QETN1HM-335Z	E CAP.	3.3 µ F	50V	M	
1207	GETN1CH-227Z	E CAP.	220 µ F	16V	M	
1209	GETNICH-476Z	E CAP.	47 µ F	16V	M	
	GETN1CM-477Z	E CAP.	470 5	167	M	
01210 01212-13	QETN1HM-105Z	E CAP.	470μF 1μF	500	M	
				504		
1214-15	QETN1HM-335Z	E CAP.	3.3 µ F	50V	M	
1216-17	QETN1HW-105Z	E CAP.	1 μ F	50V	M	
1218-19	QETN1CM-476Z	E CAP.	47 µ F	16V	64	
1220	QETN1HM-105Z	E CAP.	1 µ F	50V	M	
1221-22	QETN1CM-107Z	E CAP.	100 μ F	16V	M	
1223-24	QETN1HM-105Z	E CAP.	1 µ F	50V	M	
1231-32	QETN1CM-476Z	E CAP.	47 µ F	16V	M	
1301	QETN1CM-227Z	E CAP.	220 µ F	167	ũ	
				2514	-	
1302	QCZ0120-104MZ	C GAP.	0.1 µ F	25V	Z	
1304	GETN1CM-476Z	E CAP.	47 μ F	16V	М	
1305	QETN1HM-226Z	E CAP.	22 µ F	50V	M	
1306	QFLC1HJ-223MZ	M CAP.	0.022 µ F	50V	J	
1307-08	QETN1HM-105Z	E CAP.	1 µ F	50 V	M	
1311-13	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
1315	QFV71HJ-474MZ	TF CAP.	0.47 μ F	50V	J	
1316	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Ž	
1317	QFV71HJ-154MZ	TF CAP.	0.15 μ F	50V	J	
		C CAP.		25V	ž	
1318	QCZ0120-104MZ		0.1 µ F			
1320	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
1321-22	QCT25CH-120Z	C CAP.	12 p F	50V	J	
1323	QCZ0120-104MZ	C CAP.	0.1 μ F	25 V	Z	
1325-26	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
1327	QETN1CM-227Z	E CAP.	220 µ F	16V	M	
1328-32	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
11225	0ELC1H 1-103H2	M CAP.	0. 01 μF	50V	J	
1335	QFLC1HJ-103MZ			50V	M	
1341	QEN61HM-105Z	BP E CAP.	1 μ Ε			
1348	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
1350-52	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	
1353-55	QFV71HJ-224MZ	TF CAP.	0. 22 µ F	50V	J	
1357	QETN1HM-105Z	E CAP.	1 µ F	50V	M	
1358	QETN1HM-475Z	E CAP.	4.7 µ F	50V	M	
1359	GETNIHM-105Z	E CAP.	1μF	500	M	
		E CAD	2 2 5	50V	M	
1360	QETN1HN-335Z	E CAP.	3.3 µ F		ŭ	
1363	QETN1CM-107Z	E CAP.	100 μ F	16V		
1365	QEZ0106-228R	E CAP.	2200 µ H	107	M	
1375	QETN1CH-107Z	E CAP.	100 µ F	16V	М	
21610-11	QCT25CH-2ROZ	C CAP.	2 p F	50V	J	
21612	QETN1CH-476Z	E CAP.	47 µ F	16V	M	
21615	GETNIHM-106Z	E CAP.	10 µ F	50V	Ñ	
.1015	ACIMINM-1007	E UAT.	ιυμε	25V	ž	

C1617

QETNIHM-105Z

E CAP.

1 #F 50V M

Symbol No.	Part No.	Part Name	Description	on		L
CAPACI						
C1623-24	QETN1HM-105Z	E CAP.	1 µ F	50V	M	
C1625	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	
C1626	QETN1HM-106Z	E CAP.	10 μ F	50V	M	
C1627	QETN1HM-105Z	E CAP.	1 µ F	50V	M	
C1629-30	QETNIHM-105Z	E CAP.	1 µ F	50V	ŭ.	
C1631	QETNIHM-106Z	E GAP.	10 μ F	50V	M	
				25V	z	
C1632 C1633	QCZ0120-104MZ QETN1HM-106Z	C CAP. E CAP.	0.1 μ F 10 μ F	50V	W	
	46,111111111111111111111111111111111111					
C1645	GETN1HM-106Z	E CAP.	10 µ F	50V	N	
C1646	QCZ0120-104MZ	C CAP.	0. 1 μ F	25V	Z	
C1647	QETN1HM-106Z	E CAP.	10 µ F	50V	M	
C1649	QETN1HM-106Z	E CAP.	10 µ F	50V	M	
C1660	QFLC1HJ-333MZ	M CAP.	0.033 μ F	50V	J	
C1703	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
C1704	QETNIAM-107Z	E CAP.	100 µ F	10V	M	
C1705-06	QCT25CH-3ROZ	C CAP.	3 p F	50V	J	
04707	0070400 40407	C CAP.	0.1 µ F	25V	z	
C1707	QGZ0120-104MZ			50V	J	
C1708	QFLC1HJ-333MZ		0. 033 μ F			
C1709	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1710	QETN1EM-476Z	E CAP.	47 μ F	25V	M	
C1711	QCZ0120-104MZ	C CAP.	0.1μF	25 V	Z	
C1712	QFLC1HJ-333MZ	M CAP.	$0.033 \mu F$	50V	J	
C1713	QCZ0120-104MZ	G GAP.	0.1 µ F	25V	Z	
C1714	GETN1HM-474Z	E CAP.	0.47 μ F	50V	M	
C1715	QETN1CM-476Z	E CAP.	47 μ F	16V	M	
	QCZ0120-104MZ	C CAP.	0.1μF	25V	ž	
C1716	QETN1HM-105Z	E CAP.	1μF	50V	M	
C1717		M CAP.	0.056μF	50V	J	
C1751	QFLC1HJ-563MZ					
C1752	QFV71HJ-224MZ	TF CAP.	0. 22 μ F	50V	j	
C1754	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
C1756-57	QCZ0120-104MZ	C CAP.	0.1 µ F	25 V	Z	
C1758	GETN1AM-227Z	E CAP.	220 μ F	10V	M	
C1759	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
C1760-61	QCT25CH-150Z	C CAP.	15 p F	50V	J	
C1762	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	ž	
C1763	QETN1CM-476Z	E CAP.	47 µ F	16V	M	
		C CAP.	0.1μF	25V	Ž	
C1764	QCZ0120-104MZ				ž	
C1766-68	QCZ0120-104MZ	C CAP.	0.1 µ F	25V		
C1769-71	GETN1HM-106Z	E CAP.	10 μ F	50V	M	
C1772	QETN1CM-476Z	E CAP.	47 µ F	16V	м	
C1773	QETN1CM-107Z	E CAP.	100 μ F	16V	M	
C1776	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
C1780	QFLC1HJ-104MZ	M CAP.	0.1 µ F	50V	J	
C1781	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	ž	
C1782	QFLC1HJ-223MZ	M CAP.	0. 022 μ F	50V	Ĵ	
C1782 C1801	QETN1EM-107Z	E CAP.	0.022 μ F 100 μ F	25V	M	
	30111104 1012					
CO L	CEL DO26_4927	DEAKING COLL	a 9,.u			
L1001-02	CELPO26-8R2Z	PEAKING COIL	8.2 µ H			
L1003	CELP026-221Z	PEAKING COIL	220 µ H			
L1601	CELP027-220Z	PEAKING COIL	22 µ H			
L1602	CELP027-180Z	PEAKING COIL	18 µ H			
L1611-12	CELC005-2R5J7	CHOKE COIL	2.5 µ H			
L1701	CELP026-4R7Z	PEAKING COIL	4.7 μ H			
L1702	CELP026-8R2Z	PEAKING COIL	8.2 µ H			
L1753	CELP026-4R7Z	PEAKING COIL	4. 7 μ H			
DIODE						
D1201-11	MYZJ13 (B) -T2	ZENER DIODE				
D1212-13	1SS133-T2	SI. DIODE				
		ZENER DIODE				
D1214-15	MTZJ13 (B) -T2					
D1343	1SS133-T2	SI. DIODE				
D1345-48	1SS133-T2	SI. DIODE				
	MTZJ6. 2(B)-T2	ZENER DIODE				
D1349 D1350-53	1SS133-T2 1SS146-T2	SI. DIODE SI. DIODE				

Symbol No.	Part No.	Part Name	Description	L
DIODE			<u></u>	
D1357	1SS133-T2	SI. DIODE		
D1358	1\$\$133-T2	SI. DIODE		
D1701-02	1SS133-T2	SI. DIODE		
D1704	188146-T2	\$1,0100E		

D1705	188133-T2	S1. D10DE		
D1710-11	198133-72	SI. DIODE		
D1751-53	133133-T2	S1. D10DE		
D1754-58	MTZJ6. 2 (B) -T2	ZENER DIODE		
D1801-02	1\$\$133-T2	SI. DIODE		
D1803	MTZJ6. 8 (A) -T2	ZENER DIODE		
D1804	1SS133-T2	SI. DIODE		
TRANSI	STOR			
Q1201-05	2PC1815 (YG) -T	SI. TRANSISTOR		
01206-07	DTC323TS-T	DIGI. TRANSISTOR		
Q1208	2PA1015 (YG) -T	SI. TRANSISTOR		
01209	2PC1815 (YG) -T	St. TRANSISTOR		
Q1211-12	2PA1015 (YG) -T	SI. TRANSISTOR		
01213-14	2PC1815 (YG) -T	SI. TRANSISTOR		
91215-16	DTC323TS-T	DIGI. TRANSISTOR		
Q1217	2PA1015 (YG) -T	SI. TRANSISTOR		
Q1301	2PA1015 (YG) -T	SI. TRANSISTOR		
Q1302	2PC1815 (YG) -T	SI. TRANSISTOR		
01303-04	2PA1015 (YG) -T	SI. TRANSISTOR		
01342	DTC144ES-T	DIGI. TRANSISTOR		
01343-44	2PC1815 (YG) -T	SI. TRANSISTOR		
01345	DTC124ESA-T	DIGI. TRANSISTOR		
Q1346	2PC1815 (YG) -T	SI. TRANSISTOR		
Q1349	2PC1815 (YG) -T	SI. TRANSISTOR		
01610	2PA1015 (YG) -T	SI. TRANSISTOR		
Q1611	DTC323TS-T	DIGI. TRANSISTOR		
01613	2PC1815 (YG) ~T	SI. TRANSISTOR		
01701-04	2PC1815 (YG) -T	SI. TRANSISTOR		
01752	2PA1015 (YG) -T	SI. TRANSISTOR		
Q1753	DTC124ES-T	DIGI. TRANSISTOR		
01801	2PA1015 (YG) -T	SI. TRANSISTOR		
1 C				
IC1301	CXA1545AS	I. C (MONO-ANA)		
101303	TDA9143	1 C		
101304	TDA4665	I. C (MONO-ANA)		
IC1305	TDA4780			
		I. C (MONO-ANA)		
101311	AN77L05-Y	1. C (MONO-ANA)		
IC1601	MSP3410B-PP-F7	1. C (DIGI-OTHER)		
	MA TANTEEON			
IC1701 IC1702	M37207EFSP L78LR05E-MA	i C i. C (mono-ana)		
101703	AT24C16-32WP2	1. C (EP-ROM)		
IC1704	AT24C16-10PC	i. C (EP-ROM)		
101751	SDA30C163	I. C (MICRO-COMP)		
1C1752	M27C1001-10F1	I. C. (EP-ROM)		
IC1753	AT24C16-10PC	I. C (EP-ROM)		
IC1754	SDA5275S	I. C. (MICRO-PROC)		
1C1755	MSM514400C60ZS	I. C (D-RAM)		
101756	TC4053BP	I. C (DIGI-MOS)		
101757	MN 1280-Q	I. C (DIGI-MOS)		
OTHERS				
	QQRQ490-001	NOISE FILTER	×3	
			A 3	
	CEMS009-064	I. C. SOCKET		
	CEMS007-008	I. C. SOCKET		
	CEMS006-068	IC SOCKET		
	CEMSO07-032	C SOCKET		
	CEMS007-008	I. C. SOCKET		
FF+00+				
EF1001	CE41433-001Z	BEADS CORE		
EF1610-12	CE42142-103Z	ENI FILTER		

No.51239C

No.51239C

△ Symbol No.	Part No.	Part Name	Description	Loca
OTHERS				
K1003	CE41433-001Z	BEADS CORE		
K1005	CE41492-001Z	CHOKE COIL		
K1009	CE41433-001Z	BEADS CORE		*
K1011	CE41433~001Z	BEADS CORE		*
K1013-14	CE41433-001Z	BEADS CORE		*
K1602	CE41433-001Z	BEADS CORE		*
K1701-02	CE41433-001Z	BEADS CORE		*
MD1		100Hz PWB ASSY	(Refer to P40)	
MD2		IF PWB ASSY	(Refer to P39)	
MD3		SUB TEXT PB ASSY	(As follows)	
TU1001	CEEK481-A01	TUNER		*
X1311	CE40749-001Z	CRYSTAL		*
X1312	CE40668-001Z	CRYSTAL		*
X1610	CE42546-001Z	CRYSTAL		*
X1701	CST8. COMTW	CER. RESONATOR		*
X1751	QAX0307-001	CER. RESONATOR		
X1752	QAX0351-001Z	X TAL		

SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)
This PW Board Ass'Y is included in the above MAIN PW Board Ass'Y

∆ Symbol No.	Part No.	Part Name	Description			Local
CAPAC						
C1001	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	*
C1003	QCT25CH-270Z	C CAP.	27 p F	50V	J	*
C1005	QCT25CH-150Z	C CAP.	15 p F	50V	j	*
C1362	QCT25CH-270Z	C CAP.	27 p F	50V	J	*
C1701	GETNIHM-226Z	E CAP.	22 µ F	50V	M	*
C1702-04	QETN1HM~106Z	E CAP.	10 µ F	50V	M	*
C1705-07	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	*
COIL						
L1301	CELP027-390Z	PEAKING COIL	39 µ H			*
TRANS	ISTOR				-	
Q1347	2SK301 (P)~T	F. E. T.				*
Q1701-03	2PC1815 (YG) -T	SI. TRANSISTOR				*
1.0		*				
IC1001	TC74ACOOAP	I C				

IF PW BOARD ASS'Y(SMB0F701B-U2) This PW Board Ass'Y is included in the above MAIN PW Board Ass'Y. \$\triangle\$ Symbol No. Part No. Part Name

RESIS'	TOR				
R0103	QRSA08J-102YL	CHIP MG R	1kΩ 1/	10W J	
R0104	QRSA08J-121YL	CHIP MG R		10W J	
		CHIP MG R		10W J	
R0105	QRSA08J-151YL	CHIP MG R		10W J	
R0106	QRSA08J-181YL				
R0107	QRSA08J-151YL	CHIP MG R	150 Ω 1/	10W J	
CAPAC	ITOR				
C0020	NCB21HK-472AY	CHIP CAP.	4700 p F	50V K	
C0022-25	NCB21HK-472AY	CHIP CAP.	4700 p F	50V K	
C0026-27	NCB21HK-103AY	CHIP CAP.		50V K	
C0030	NGB21HK-472AY	CHIP CAP.		50V K	
C0040	NCTO3CH-102AY	CHIP CAP.	1000 pF 160		
C0041	GETNICH-107Z	E CAP.		16V M	
C0042	NGB21HK-103AY	CHIP CAP.		SOV K	
C0043	GETNICH-107Z	E CAP.	100 µ F	16V M	
C0044	NCB21HK-103AY	CHIP CAP.		50V K	
C0046	NCB21HK-103AY	CHIP CAP.		50V K	
C0047	QETN1CM-227Z	E CAP.		16V M	
C0050	QETN1HM-105Z	E CAP.		50V M	
C0051	NCB21HK-472AY	CHIP CAP.	4700 p F	50V K	
C0052	QAT3110-100A	TRIM CAP.		00V	
C0053	NCTO3CH-6ROAY	CHIP CAP.		00V H	
C0054	NCB21HK-103AY	CHIP CAP.		50V K	
00055	ACTN489 4077	E CAD	100 µ F	16V M	
C0055	QETN1CM-107Z	E CAP.		50V M	
C0056	QETN1HM-474Z	E CAP.			
C0057	NCTO3CH-102AY	CHIP CAP.			
C0058	NCB21HK-472AY	CHIP CAP.		50V K	
C0059	QAT3110-100A	TRIM CAP.		00V	
C0060	NCTO3CH-120AY	CHIP CAP.	12 p F 16		
C0061	NCTO3CH-7ROAY	CHIP CAP.	7 p F 16	00V H	
C0062	QETN1HM-474Z	E CAP.	0.47 µ F	50V M	
C0063	NCB21HK~103AY	CHIP CAP.	0.01 μF	50V K	
C0064	NCB21HK-472AY	CHIP CAP.		50V K	
	GETN1HM-105Z	E CAP.		50V M	
C0065					
C0067	NCTO3CH-120AY	CHIP CAP.		50V K	
C0069-70	NCB21HK-103AY	CHIP CAP.			
C0071	QETN1HM-336Z	E CAP.		50V M	
C0080-81	NGB21HK~472AY	CHIP CAP.		50V K 16V M	
C0101	GETN1CM-476Z	E CAP.	41μτ	104 1	
C0102	NCTO3CH-391AY	CHIP CAP.	390 p F 166		
C0103	NCTO3CH-121AY	CHIP CAP.	120 p F 160	DOV H	
C0104	NCTO3CH-181AY	CHIP CAP.	180 p F 160		
C0105	NCF21EZ-104AY	C CAP.		25V Z	
C0140	QETN1HM-335Z	E CAP.	3.3 µ F	50V M	
C0140	NCB21HK-332AY	CHIP CAP.		50V K	
	QETN1HM-105Z	E CAP.		50V M	
C0142 C0143	QFLC1HJ-683MZ	M CAP.	0.068 μ F	50V Z	
00144	QETN1HM-335Z	E CAP.		50V M 50V K	
00145	NGB21HK-222AY	CHIP CAP.			
C0601	OFLC1HJ-183MZ	M CAP.		50V J	
C0602	QETN1CM-476Z	E CAP.		16V M	
C0603	QETN1HM-106Z	E CAP.		50V M	
C0604	QETN1HM-105Z	E CAP.		50V M	
C0605	QETN1CM-477Z	E CAP.		16V M	
C0606	NCB21HK-103AY	CHIP GAP.	0. 01 μ F	50V K	
CF0010-11	FTP40, 40MF	CERAMIC FILTER			
TRANS	FORMER				
T0020	QQR0626-001	I. F. TRANSF.			
T0050	CELT001-307	C. WAVE TRANSF.			
T0051	CELT001-306	C. WAVE TRANSF.			
COIL					
	AEI 8044 B47	PEAKING COIL	0.47 μ Η		
L0020	CELP041-R47	INDUCTOR	1.5 µ H		

8WZ2EP	Part No.	Part Name	Description	Locai
△ Symbol No.	Part No.	rare italio		
COIL		INDUCTOR	2. 2 µ H	*
L0030	CE41131-2R2Y	INDUCTOR	12 µ H	
L0040	CE41131-120Y	INDUCTOR		
L0041	CE41131-100Y	INDUCTOR	10 µ H	
L0050-53	GE41131-8R2Y	INDUCTOR	8. 2 µ H	*
L0070	CE41131-5R6Y	INDUCTOR	5. 6 μ H	:
L0071	GE41131-8R2Y	INDUCTOR	8. 2 µ H	*
L0101	GE41131-6R8Y	INDUCTOR	6.8 µ H	
L0102-03	CE41131-100Y	INDUCTOR	10 µ H	. *
L0104	CE41131-5R6Y	INDUCTOR	5.6 μ H	*
DIODE				
D0020-21	1SS85-T5	SI. DIODE		
D0050-51	1SS85-T5	SI. DIODE		
TRANS				
00012	2SC5083 (L-P) -T	SI. TRANSISTOR		*
08000	2SC2712 (YG) ~X	SI. TRANSISTOR		*
00101	2SC2712 (YG) ~X	SI. TRANSISTOR		*
00102	2SA1162 (YG) -X	SI. TRANSISTOR		*
00103	DTC144EK-X	DIGI. TRANSISTOR		*
00104	2SC2712(YG)-X	SI. TRANSISTOR		*
00106	2SC2712(YG)-X	SI. TRANSISTOR		*
00107	2SA1162 (YG) -X	SI. TRANSISTOR		*
00108	DTC144EK-X	DIGI. TRANSISTOR		
Q0109-11	2SC2712 (YG) -X	SI. TRANSISTOR		*
00120-26	DTC144EK-X	DIGI. TRANSISTOR		*
00601-02	2SC2712 (YG) -X	SI. TRANSISTOR		*
10				
100010	TA8865BN	I. C (MONO-ANA)		
OTHERS	3			
CF0100	TPS5.5MW	CERAMIC FILTER		
CF0140	CSB503F30-T2	CER. RESONATOR		*
△ R0609	QRZ0054-470M	FR	47 Ω 1/4W J	*
SF0010	QAX0316-001	SAW FILTER		*
SF0011	CE42574-702	SAW FILTER	_	
SF0012	CE42606-701	SAW FILTER		

100Hz PW BOARD ASS'Y (SMB0Z002B-U2)

This PW Board Ass'Y is included in the above MAIN PW Board Ass'Y.

Local	Description			Part Name	Part No.	Symbol No.	
					OR	RESIST	
	J		15k Ω	M. F. R	NRVA02D-1502NY	R0302	
	J	1/10W	11kΩ	CHIP MF R	NRVA02D-1102NY	R0303	
					TOR	CAPACI	
*	M	16V	220 µ F	E CAP.	QETN1CM-227Z	C0001	
*	Z	25V	0.1 μ F	C CAP.	NCF21EZ-104AY	C0002	
*	M	16V	220 µ F	E CAP.	QETN1CM-227Z	C0003	
	Z	25V	0.1μF	G CAP.	NCF21EZ-104AY	C0004	
	M	16V	220 µ F	E CAP.	QETN1CN-227Z	C0005	
*	Z	25V	0.1 <u>μ</u> F	G GAP.	NCF21EZ-104AY	C0006	
*	M	16V	220 μ F	E CAP.	QETN1CM-227Z	C0007	
4	2	25V	0.1 µ F	C CAP.	NCF21EZ-104AY	C0008	
	M	107	1000 µ F	E CAP.	GETNIAM-108Z	C0009-10	
×	J	50V	150 p F	C CAP.	NCS21HJ-151AY	C0101	
*	H	1600V	39 p F	CHIP CAP.	NCTO3CH-390AY	C0102	
*	J	50V	270 p F	CER, CAP.	NCS21HJ-271AY	C0103	
	M	50V	1 µ F	E CAP.	QETN1HM-105Z	C0106	
	Z	50V	0.22 µ F	CHIP C CAP.	NCF21HZ-224AY	C0107	
*	Z	25V	0.1 μ F	C CAP.	NCF21EZ-104AY	C0108	
	М	16V	47 μ F	E CAP.	GETNICH-476Z	C0109	
*	J	50V	150 p F	C CAP.	NCS21HJ-151AY	C0111	
1	Н	1600V	39 p F	CHIP CAP.	NCTO3CH-390AY	C0112	
	J	50V	270 p F	CER, CAP.	NCS21HJ-271AY	C0113	
	M	50V	1 µ F	E CAP.	QETN1HM-105Z	C0116	
	Z	50V	0. 22 µ F	CHIP C CAP.	NCF21HZ-224AY	C0117	
	Z	25V	0.1 u F	C CAP.	NCF21EZ-104AY	C0118	
	J	50V	150 p F	C CAP.	NCS21HJ-151AY	C0121	
,	Н	1600V	39 p F	CHIP CAP.	NCTO3CH-390AY	C0127	

Symbol No.	Part No.	Part Name	Description		L
CAPACI					
C0123	NCS21HJ-271AY	CER, CAP.	270 p F 50V	J	
C0126	GETNIHM-106Z	E CAP.	10 µ F 50V	M	
C0127	NCF21HZ-224AY	CHIP C CAP.	0.22 u f 50V	1	
C0128	NCF21EZ-104AY	C CAP.	0.1 μ F 25V	Z	
C0131	NOFSIEZ-104AV	E CAP.	A 1 F	ū	
C0132	GETNOJM-2272		220 uf 8. 3V		
C0133	NCF21EZ-104AY	C CAP.	U. 1 MT 234	Z	
C0134	NGF21EZ-104AY	C CAP.	0.1 μ FF 25V	Z	
C0135-36	QETNOJN-227Z	E CAP.	220 μ F 6. 3V	M	
C0137	NCF21EZ-104AY	C CAP.	0.1 μ F 25V	Z	
C0138	GETNOJM-227Z	E CAP.	220 µ F 6. 3V	M	
C0139	NCF21EZ-104AY	C CAP.	0.1 u F 25V	ž	
	NCF21EZ-104AY	C CAP.		Ž	
C0142-47			0.1 μ F 25V		
C0148	GETNOJM-227Z	E CAP.	220 μ F 6.3V	M	
C0149-54	NCF21EZ-104AY	C CAP.	0.1 μ F 25V	Z	
CO155	NCTO3CH-390AY	CHIP CAP.	39 p F 1600V	Н	
C0201-06	NGF21EZ-104AY	C CAP.	0.1μF 25V	Z	
C0207	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V	K	
CO208-13	NCF21EZ-104AY	C CAP.	0.1 µF 25V	Ž	
		CHIP CAP.		H	
C0214	NCTO3CH-100AY				
C0221-38	NCF21EZ-104AY	C CAP.	0.1 μ F 25V	Z	
C0301	QETNOJM-227Z	E CAP.	220 µ F 6. 3V	М	
C0302	NCF21EZ-104AY	C CAP.	.0.1 µF 25V	Z	
C0303	QETNOJM-227Z	E CAP.	220 μ F 6.3V	ŭ	
C0304	NCF21EZ-104AY	C CAP.	0.1 μ F 25V	Z	
C0307-08	NCF21EZ-104AY	C CAP.	0.1 µF 25V	ž	
C0309	OFTN1CM-107Z	E CAP.	100 µ F 16V	ù	
C0310	QETNOJM-227Z	E CAP.	220 µ F 6. 3V	M	
C0311	NCF21EZ-104AY	C CAP.	0.1 μ F 25V	Z	
C0313	NCS21HJ-152AY	CHIP C CAP.	1500 p F 50V	J	
C0314-18	NCF21EZ-104AY	C CAP.	0.1 µF 25V	Z	
C0321	QETN1HM-105Z	E CAP.	1 µ F 50V	N	
C0322	NCF21HZ-224AY	CHIP C CAP.	0. 22 µ F 50V	z	
C0323	NCF21EZ-104AY	C CAP.	0. 1 μ F 25V	Z	
CO324	GETNICH-476Z	E CAP.	47 µ F 16V	M	
C0331	GETNIHM-105Z	E CAP.	1 μ F 50V	M	
C0332	NCF21HZ-224AY	CHIP C CAP.	0. 22 µ F 50V	Z	
C0333	NCF21EZ-104AY	C CAP.	0.1 μ F 25V	Z	
C0341	QETN1HM-106Z	E CAP.	10 u F 50V	N	
C0342	GETNIHM-105Z	E CAP.	1 µ F 50V	N	
C0343	NCF21EZ-104AY	C CAP.		Z	
		OULD CAD			
C0401	NCB21HK-103AY	CHIP CAP.	0.01 µ F 50V	K	
C0402	NCF21EZ-104AY	G CAP.	0.1μF 25V	Z	
C0403	QETNOJM-227Z	E CAP.	220 µ F 6. 3V	M	
C0404	NGF21EZ-104AY	C CAP.	0. 1 u F 25V	Ž	
C0405	QETNICH-107Z	E CAP.	100 µF 16V	Ñ	
	NCF21EZ-104AY			Ž	
C0406 C0407	NGF21EZ-104AY	G GAP. G GAP.	0.1μF 50V 0.1μF 25V	Z	
C0408	DETNICH-107Z	E CAP.	100 µ F 16V		
C0409-10	NCTO3CH-270AY	CHIP CAP.	27 p F 1600V	Н	
C0411	NCTO3CH-180AY	CHIP CAP.	18 p F 1600V	н	
C0412-13	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V	K	
C0415	NCF21EZ-104AY	C CAP.	0.1 μ F 25V	Z	
COIL				· · · · · · · · · · · · · · · · · · ·	
L0001-02	CE40344-4R7YL	INDUCTOR	4. 7 μ H		
		INDUCTOR			
L0003-04	CE40344-100YL		10 μ Η		
L0005-07	CE40344-4R7YL	INDUCTOR	4.7 µ H		
L0101	CE41131-3R3Y	INDUCTOR	3.3 µ H		
L0111	CE41131-3R3Y	INDUCTOR	3.3 µ H		
L0121	GE41131-3R3Y	INDUCTOR	3.3 µ H		
L0301	CE41131-100Y	INDUCTOR	10 μ H		
L0401-02	CE40344-330YL	INDUCTOR	33 μ H		
DIODE					
D0301	MA3051 (L) -X	ZENER DIODE			

⚠ Symbol N	o. Part No	Part Name	Description	
RESI	STOR			
R2409	QRX019J-1ROS	MF R	1Ω 1W J	
R2411	QRG029J-221	OM R		
R2412-13			220 Ω 2W J	
		MF R	1.8 Ω 1W J	
R2418	QRV141F-6802AY	MF R	68kΩ 1/4W F	
R2419	QRV141F-7870AY	MF R	787 Ω 1/4W F	
R2421	QRV141F-1003AY	MF R	100kΩ 1/4W F	
R2422	QRV141F-1501AY	MF R	1.5kΩ 1/4W F	
R2508	QRV141F-1962AY	MF R	19.6kΩ 1/4W F	
R2509	QRV141F-5101AY	MF R	5.1kΩ 1/4W F	
R2516	QRG039J-272	DM R	2.7kΩ 3W J	
R2517	QRG039J-122	OM R	1. 2k Ω 3W J	
R2533	QRX039J-5R6	MF R	5.6 Ω 3W J	
R2571	QRG029J-223	OM R	22kΩ 2₩ J	
R2581	QRF104J-100	UNF R		
		UNF R		
R2902	QRF154K-4R7		4.7 Ω 15W K	
R2905	QRG039J-333	OM R	33kΩ 3W J	
R2907	ORM059J-R22	MP R	0.22 Ω 5W J	
R2910	QRG039J-393	OM R	39kΩ 3W J	
R2951	QRF074J-102	UNF R	1kΩ 7W J	
R2952	QRG029J-123	OM R	12kΩ 2W J	
R2953	QRX039J-5R6	MF R	5.6 ♀ 3W J	
R2962-63	QRG019J-220S	OM R	22 Q 1W J	
▲ R2991	QRZ0057-825	CR	8.2MΩ 1W J	
CAPA	CITOR	·		
C2401	QFLC2AJ-104MZ	M CAP.	0.1 μ F 100V J	
02402	QETC1VM-337Z	E CAP.	330 µ F 35V M	
C2403	QFV71HJ-104MZ	TF CAP.		
C2405			0.1μF 50V J	
	QFV71HJ-474MZ	TF CAP.	0.47 µ F 50V J	
C2406	QFLC2AJ-104MZ	M CAP.	0.1μF 100V J	
C2407	OFLC2AK-223MZ	M CAP.	0.022 μ F 100V K	
C2410	QFV71HJ-474MZ	TF CAP.	0.47 μ F 50V J	
C2411	GETN1HM-226Z	E CAP.	22 μ F 50V M	
C2412	QETM1VM-108	E CAP.	1000 µ F 35V M	
C2415	QCT25CH-470Z	C CAP.	47 p F 50V J	
C2501	QFV71HJ-124MZ	TF CAP.	0.12 µF 50V J	
C2502	QETNICH-108Z	E CAP.	1000 µF 16V M	
C2503	GETN2AM-106Z	E CAP.	10 μ F 100V M	
	QETN1AM-227Z			
C2504		E CAP.	220 µ F 10V M	
C2505 C2507	QFLC2AJ-102MZ QFLC1HJ-104MZ	M CAP. M CAP.	1000 pF 100V J 0.1 μF 50V J	
C2508 C2509	QFM72DK-103M QETN1AM-227Z	M CAP. E CAP.	0.01 μ F 200V K 220 μ F 10V M	
C2520	QFV71HJ-224MZ			
		TF CAP.		
C2521	QFZ0117-1801S	MPP CAP.	1800 pF 2000V ± 2.5%	
C2522	QFZ0117-4501S	MPP CAP.	4500 p F 2000V ± 2.5%	
C2523	QFM72DK-683M	M CAP.	0.068 µF 200V K	
C2525	QFZ0117-4001S	MPP CAP.	4000 pF 2000V ± 2.5%	
C2526	QFZ0119-434S	MPP CAP.	0.43 µF 200V J	
C2527	QFZ0119-514S	MPP CAP.	0.51μF 200V J	
C2528	QFZ0119-304S	MPP CAP.	0.3 µF 200V J	
C2529	QFZ0128-204S	MPP CAP.	0. 2 µ F 400V ±3%	
C2533	QFZ0194-304	MPP CAP.	0.3 µF 250V J	
C2536	QFZ0119-534S	MPP CAP.		
C2537	QETM2CM-227	E CAP.	220 µ F 160V M	
C2541 C2544	QEZ0195-475MZ QETN1EM-476Z	E CAP. E CAP.	4.7μF 50V M 47μF 25V M	
			•	
C2545	GETNIAM-107Z	E CAP.	100 μ F 10V M	
C2546	QFLC1HK-104MZ	M CAP.	0.1μF 50V K	
C2551	GEN61HM-105Z	BP E CAP.	1 µ F 50V ₩	
C2554	GETN2EM-106Z	E CAP.	10 μ F 250V M	
C2555-56	QETN1EM-108Z	E CAP.	1000 µ F 25V M	
C2581	QETCOJM-107Z	E CAP.	100 µ F 6.3V ₩	
	QETN1CM-476Z	E CAP.	47 µ F 16V M	
C2582				

AV-2	28WZ2EP				
	△ Symbol No.	Part No.	Part Name	Description	Local
	TRANS				
	00101	2SC2712 (YG) -X	S1. TRANSISTOR		
	00102	2SA1162 (YG) -X	SI, TRANSISTOR		*
	00103	2SC2712 (YG) -X	SI. TRANSISTOR		
	Q0104	2SA1162 (YG) -X	SI. TRANSISTOR		*
	Q0111	2SC2712 (YG) -X	SI. TRANSISTOR		*
	00112	2SA1162 (YG) -X	SI. TRANSISTOR		*
	Q0113	2SC2712 (YG) -X	SI. TRANSISTOR		*
	Q0114	2SA1162 (YG) -X	SI. TRANSISTOR		*
	00121	2SC2712 (YG) -X	SI. TRANSISTOR		
	90122	2SA1162 (YG) -X	SI. TRANSISTOR		*
	00123	2SC2712 (YG) -X	SI. TRANSISTOR		*
	00124	2SA1162 (YG) -X	SI. TRANSISTOR		*
	00131	2SC2712 (YG) -X	SI. TRANSISTOR		
	90321	2SC2712 (YG) -X	SI TRANSISTOR		
	Q0322	2SA1162 (YG) ~X	SI. TRANSISTOR		
	00323	2SC2712 (YG) -X	SI, TRANSISTOR		
	40323	2302/12(14)-X	31, IRAN31310R		•
	00324	2SA1162 (YG) -X	SI. TRANSISTOR		*
	00331	2SC2712 (YG) -X	SI. TRANSISTOR		*
	Q0332	2SA1162 (YG) -X	SI. TRANSISTOR		*
	Q0333	2SC2712 (YG) -X	SI. TRANSISTOR		*
	Q0334	2SA1162 (YG) -X	SI. TRANSISTOR		*
	00341	2SC2712 (YG) -X	SI. TRANSISTOR		*
	Q0342	2SA1162 (YG) -X	SI. TRANSISTOR		*
	Q0343	2SC2712 (YG) -X	SI. TRANSISTOR		*
	00344-45	2SA1162 (YG) -X	SI. TRANSISTOR		*
	Q0351	2SG2712 (YG) -X	SI. TRANSISTOR		*
	90361	2SC2712 (YG) -X	SI. TRANSISTOR		*
	Q0401	2SC2712 (YG) -X	SI. TRANSISTOR		*
	1 C 100101	SDA9205-2-W	I. C (DIGI-MOS)		
	100201	SDA9272	I. C (MICRO-COMP)		•
	100201	SDA9251-X	I. C (SAM)		
		SDA9253	I. C (SAM)		-
	1C0203-04 1C0301	SDA9280-W	I. C (DIGI-OTHER)		
					-
	IC0401	SDA9257	I. C (DIGI-OTHER)		
	100402	MC74F04N-X	1 U		
	OTHER	S			
	DL0321	NQR0241-001X	L. P. F		*
	DL0331	NQR0241-001X	L. P. F		*
	DL0341	NQR0242-001X	L. P. F		*
	EF0001-05	CE42482-103Y	EMI FILTER		*
	EF0006	CE42482-470Y	EMI FILTER		
	EF0101	CE42482-470Y	EMI FILTER		*
	EF0111	CE42482-470Y	EMI FILTER		
	EF0121	CE42482-470Y	EMI FILTER		*
	FF0221	OF 40490-470V	CHI CIITED		*
	EF0321	CE42482-470Y	EMI FILTËR Emi filter		
	EF0331	CE42482-470Y			
	EF0341-42	CE42482-470Y	EMI FILTER		*
	EF0351	CE42482-470Y	EMI FILTER		*
	EF0361	CE42482-470Y	ENI FILTER		
	K0001	CE41433-001Z	BEADS CORE		
	X0401	QAX0350-001	X TAL		

Loc		n	Description	Part Name	Part No.	WZ2EP Symbol No.
	Р	400V	0.047. 5		TOR	CAPACI
	P	400V	0. 047 μ F	C CAP.	QCZ9034-472A	C2903
	r	4004	4700 p F	C CAP.	QCZ9034-472A	C2904-05
			220 µ F	E CAP.	QEZ0199-227M	C2906
	K	0000V	150 p F	C CAP.	QCZ0122-151A	C2908
	K		220 p F	C CAP.	QCZ0122-221A	C2909
	N	25V	220 µ F	E CAP.	QETN1EW-227Z	C2910
	K	50Y	0.1 u F	M CAP.	OFLC1HK-104MZ	
	J	50V	1000 p F	M CAP.	QFLC1HJ-102MZ	C2914 C2916
	M	50V	1 µ F	E CAP.	QETN1HM-105Z	C2919
	J	50V	4700 p F	M CAP.	QFLG1HJ-472MZ	C2920
	M	160V	200 μ F	E CAP.	QEZ0203-227	
	M	16V	1000 µ F	E CAP.	QEHC1CM-108MZ	C2951
	M	16V	1000 µ F	E CAP.	QEHBICM-108M	G2952
	M	10V	2200 µ F	E CAP.		C2953
	Z	25V	0.1 µ F	C CAP.	QEZ0106-228R	02954
	M	50V	33 µ F	E CAP.	QCZ0120-104MZ QEHC1HM-336MZ	C2966-68 C2970
	M	16V	100 µ F	E CAP.		
	M	107	2200 µ F		QEHC1CM-107MZ	C2971
	M	100	220 µ F	E CAP.	QETN1AM-228Z	C2972
	M	16V		E CAP.	QEHC1AM-227MZ	C2973
	M	100	2200 µ F	E CAP.	QEHB1CM-228M	C2975
	M	10V	2200 μ F	E CAP.	QEZ0106-228R	C2976
			100 μ F	E CAP.	QEHC1AM-107MZ	C2977
	K		150 p F	C CAP.	QCZ0122-151A	C2978
	М	25V	220 µ F	E CAP.	QETN1EM-227Z	C2981
	M	50V	10 μ F	E CAP.	QETN1HM-106Z	C2982-83
	K	400V	470 p F	C CAP.	QCZ9041-471A	C2991
	М	400V	330 p F	C CAP.	QCZ9041-332A	C2992
					FORMER	TRANS
				DRIVE TRANSF	CE42672-001	T2501
				PINC. TRANSF.	QQR0706-001	T2521
				H. V. T (SERVICE)	CETHO20-00AJ1	
				SWITCH. TRANSF.	CETS089-001J4	12551
				POWER TRANSF.	QQT0147-001	12901 12981
						0011
				LINEARITY COIL	QQR0707-001	COIL
				CHOKE COIL		L2521
				HEATER CHOKE	QQR0705-001	L2541
					CELC901-046J6	L2551
			2.5 µ H	CHOKE COIL	CELC055-100	L2901-02
			2. 3 μ π	CHOKE COIL	CELC005-2R5J7	L2903
				HEATER CHOKE	CELC901-046J6	L2951
			5. 6 μ H	CHOKE COIL	CELCO57-5R6Z	L2952-53
						DIODE
				ZENER DIODE	MTZJ75-T2	02401
				SI. DIODE	BYD33D-T3	D2402
				SI. DIODE	1SS133-T2	D2403
				ZENER DIODE	MTZJ7.5S-T2	D2404
				SI. DIODE	1SS133-T2	
				SI. DIODE	MA700A-T2	D2405
				SI. DIODE	1SS133-T2	D2406-09
				ZENER DIODE	MTZJ22(B)-T2	D2410 D2411
				SI. DIODE	BYD33G-T3	
				ZENER DIODE		D2501
					MTZJ7.58-T2	D2502
				SI. DIODE	1SS133-T2	D2504
				ZENER DIODE	MTZJ6. 8 (A) -T2	D2505
				SI. DIODE	1SS146-T2	D2506
				SI. DIODE	1SS81-T5	D2507
				S1. D100E	1SS133-T2	D2508
				SI. DIODE	FMV-3FU-C1	D2521
				S1. D100E	V11CA-C1	D2525
				ZENER DIODE	MTZJ6. 8 (C) -T2	
				SI. DIODE		D2541
				SI. DIODE	188133-T2	D2542
				SI. DIODE	BYD33G-T3	D2550-51
				GI. DIODE	BYW95B-20	02552-53

∆ Symbol No.	Part No.	Part Name	Description	Loca
DIODE				
D2556	BYD33G-T3	SI. DIODE		
D2571	MTZJ33 (B) -T2	ZENER DIODE		1
D2581	MTZJ15 (B) -T2	ZENER DIODE		
D2582	MTZJ7. 5 (B) -T2	ZENER DIODE		
		ZENER DIODE		
D2585	188133-72	SI. DIODE		
D2901	D3SB60			
20620	ртрээм-тэ	BRIDGE DIODE		
D2903	15R124-400A-T2	SI. DIODE		
D2904-05	BYD33D-T3	SI. DIODE		فشافي فالم
D2951-52	RU4C-C1	SI. DIODE		
D2953	BYD33M-T3	SI. DIODE		
D2954-55	BYW958-20	SI. DIODE		
D2956	SF6L20U	SI. DIODE		
D2958-59	SF6L20U	SI. DIODE		
D2960				
D2961	MTZJ5. 1 (A) -T2 MTZJ5. 6 (A) -T2	ZENER DIODE ZENER DIODE		
D2962-66 D2968	155133-T2 155133-T2	S1. D100E S1. D10DE		
D2970	1SS133-T2	S1. D100E		
D2981-84	1N4003-T2	\$1.0100E		
D2985	188133-T2	S1. D10DE		
D2986	MTZJ8. 2(B)-T2	ZENER DIODE		
D2987	188133-12	St. DIODE		1
TRANSI				
Q2401-02	DTG144ESA-T	DIGI. TRANSISTOR		
Q2403	2PC1815 (YG) -T	SI. TRANSISTOR		
Q2404	DTC144ESA-T	DIGI. TRANSISTOR		
02405-06	2PC1815 (YG) -T	SI. TRANSISTOR		
92501	BSN274	F. E. T.		
02505	2PA1015 (YG) -T	SI. TRANSISTOR		
Q2506 Q2521	2PC1815 (YG) -T 2SC5406-RL	SI. TRANSISTOR SI. TRANSISTOR		,
				•
02523	1RF640	F. E. T.		
Q2526	DTC124ESA-T	DIGI. TRANSISTOR		
02541	2SD1408 (0Y) -LB	SI. TRANSISTOR		
Q2551	DTA124ESA-T	DIGI. TRANSISTOR		
Q2552	DTC144ESA-T	DIGI. TRANSISTOR		
Q2581	2SA949 (Y) C1	SI. TRANSISTOR		
	DTC144ESA-T	DIGI. TRANSISTOR		,
Q2582 Q2901	2SK2148-C1	F. E. T.		
42301	23K2140 UI	r. E. 1.		
02955	2PC1815 (YG) -T	SI. TRANSISTOR		,
Q2981	2SC2655 (Y) -T	SI. TRANSISTOR		
02982	2PC1815 (YG) -T	SI. TRANSISTOR		
	5. 0.0.0 (14)			
I C IC2401	LA7841	I. C (MONO-ANA)		
102501	TDA91518	I. C (DEF-PRO)		
102541	UPC4558C	I. C (MONO-ANA)		
102901	MC44603P	I. C (MONO-ANA)		•
IC2951	SE135N	I. C (HYBRID)		
102952	LM2940CT-12	I. C (MONO-ANA)		
IC2953	UPC2409AHF	I.C (MONO-ANA)		
102954	K1A7808P1	I. C (MONO-ANA)		•
102955-56	PQ05RF21	1. C (MONO-ANA)		
102957	K1A7808P1	1. C (MONO-ANA)		•
OTHERS				
△ FR2551	QRH017J-1ROM	FR	1 Ω 1W J	
△ FR2552	QRH017J-1ROM	FR	1 Ω 1₩ J	
△ FR2553	QRZ0054-4R7M	FR	4.7 Ω 1/4W J	
			7.7 St 1/98 U	
K2402	CE41433-001Z	BEADS CORE		•
K2502-05	QQR0679-001	FERRITE BEADS		
K2506	CE41433-001Z	BEADS CORE		
K2901-04	CE42050-001Z	CORE		
K2951	CE41433-001Z	BEADS CORE		

*

△ Symbol No.	Part No.	Part Name	Description	Loca
OTHERS				
PC2521	TLP621 (B)	I. C (PH. COUPLER)		
△ PC2901	TLP721F (D4-GR)	I. C (PH. COUPLER)		
RY2981	CESK028-002	RELAY		
TH2901	CEKP002-003	W. P. THERMISTOR		:

CRT SOCKET	DW BOARD	ASS'V	/SMR_3002F	3-1121

2 5	Symbol No.	Part No.	Part Name	Descripti	on		Loc
	RESIST						
	3106	QRD14CJ-100SX	C R	10 Ω	1/4W	J	
	3119	QRG029J-391A	OM R	390 Ω	2W	J	
ş	3229-31	QRG019J-823S	OM R	82k Ω	1₩	J	
	CAPACI						
	3101	QETN1HM-106Z	E CAP.	10 μ F	50V	M	
	3102	QFLC1HK-103MZ	M CAP.	0.01 µ F	50V	K	
	3103	QETN1HM-335Z	E CAP.	3.3 µ F	50V	М	
	3104	QETN1CM-107Z	E CAP.	100 µ F	16V	M	
	3107	QETC2CN-106Z	E CAP.	10 µ F	160V	M	
	3110	QETC2CM-106Z	E CAP.	10 µ F	160V	M	
	3111	QETCOJM-107Z	E CAP.	100 µ F	6. 3V	M	
C	3118	QETN1HM-106Z	E CAP.	10 µ F	50V	M	
	3204-09	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C	3210-12	QFH62EK-104MZ	MM GAP.	0.1 μ F	250V	K	
	3218	QETM2EM-336	E CAP.	33 µ F	250V	M	
	3219	QFZ0097-223M	M M CAP.	0. 022 μ F		K	
	3221	QETC2EM-106Z	E CAP.	10 μ F	250V	M	
C	3301	QETN1CM-107Z	E CAP.	100 μ F	16V	M	
	COIL						
	3101	CELP026-150Z	PEAKING COIL	15 µ H			
L	3201-03	CELPO26-4R7Z	PEAKING COIL	4.7μΗ			
	DIODE						
	3101-02	RH1S-T3	SI. DIODE				
	3103	MA165-T2	SI. DIODE				
	3151	1SS133-T2	SI. DIODE				
	3204-06	EUO1N-T2	SI. DIODE				
	3301	1SS252-T2	SI. DIODE				
_	3302-03	1SS133-T2	S1. D10DE				
	TRANSI: 13101	S T O R 2SA1309A (QR) -T	SI. TRANSISTOR				
	3102-03	2SC3311A (QR) -T	SI. TRANSISTOR				
	3104	2SA1309A (QR) -T	SI. TRANSISTOR				
	3105	2SA1837	SI. TRANSISTOR				
	3106	2SC4793	SI. TRANSISTOR				
	3107	2SC3311A (QR) -T	SI. TRANSISTOR				
	3108	2SC1906-T	SI. TRANSISTOR				
	3301	2PA1015 (YG) -T	SI. TRANSISTOR				
G	3302	2SC2655 (Y) -T	SI, TRANSISTOR				
	3303	2PA1015 (YG) -T	SI. TRANSISTOR				
	ı c						
1	C3201-03	TDA61110	I. C (MONO-ANA)				
	THERS		DUCKE BALL				
	3101-04	CE41492-001Z	CHOKE COIL	F.CO			
	3109	QRH017J-561M	F R	560 Ω	1W	J	
- 5	K3001	CE42535-001J1	C. R. T. SOCKET				

AUDIO PW BOARD ASS'Y (SMB-6001B-U2)

Symbo: No	Part No.	Part Numo	Dance i p+ i c			
CAPACI	TOR					
C6101	QFV71HJ-684MZ	TF CAP.	0.68 µ F	50V	J	*
C6102-03	QETM1EM-228	E CAP.	2200 µ F	25V	M	
C6105	QETN1HM-105Z	E CAP.	1 u F	50V	M	
C6106	QETN1CM-107Z	E CAP.	100 µ F	16V	M	
C6108	QFV71HJ-684MZ	TF CAP.	0.68 µ F	50V	J	*
C6109-10	QFV71HJ~104MZ	TF CAP.	0.1 µ F	50V	J	
C6112	GETN1HM-105Z	E CAP.	1 μ F	50V	M	*
C6113	QETN1CM-107Z	E CAP.	100 μ F	16V	M	*
C6115-16	QFV71HJ-684MZ	TF CAP.	0.68 µ F	50V	J	*
C6117-18	QFV71HJ-104MZ	TF CAP.	0.1 µ F	50V	j	
C6121	QFLC1HJ-103MZ	M CAP.	0. 01 μ F	50V	Ĵ	*
DIODE						
D6101-04	MTZJ27 (B) -12	ZENER DIODE				*
D6105	MTZJ5. 1 (B) -T2	ZENER DIODE				*
D6107	1SS133-T2	SI. DIODE				*
D6108	MA700-T2	SI. DIODE				*
D6112	155133-T2	SI. DIODE				*
D6115	1SS133-T2	SI. DIODE				*
TRANSI	STOR					
Q6101	DTC144ESA-T	DIGI. TRANSISTOR				
Q6102	2PA1015 (YG) -T	SI. TRANSISTOR				*
Q6104	2PA1015 (YG) -T	SI. TRANSISTOR				*
Q6105	DTC144ESA-T	DIGI. TRANSISTOR				
Q6106-07	DTC323TS-T	DIGI. TRANSISTOR				*
1 C						
106101-02	TDA2052V	I. C (MONO-ANA)				*
OTHERS			· · · · · · · · · · · · · · · · · · ·			
K6001-02	CE41433-001Z	BEADS CORE				*

FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2)

Symbol No.	Part No.	Part Name	Descriptio	n		Loca
CAPACI	TOR					***************************************
C8003	QETN1HM-106Z	E CAP.	10 µ F	50V	M	
C8004	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
C8005	QETN1CM-476Z	E CAP.	47 µ F	16V	M	
C8009	QETN1CM-476Z	E CAP.	47 µ F	16V	M	
C8012	QETN1HM-106Z	E CAP.	10 µ F	50V	M	
C8013-14	QETN1HM-105Z	E CAP.	1 μ F	50V	M	
C8017-18	QETN1HM-106Z	E CAP.	10 µ F	50V	M	
C8020-21	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	
∆ C8901	QFZ9040-474N	MF CAP.	0. 47 μ F			
COIL						
L8001	CE41832-001	LEAD CORE				
L8002-03	CELPO17-5R6Y	PEAKING COIL	5.6 µ H			*
L8010-11	CELP017-270Y	PEAKING COIL	27 μ H			
L8012	CE41832-001	LEAD CORE				
DIODE		***************************************				
D8007	P1201	C. D. S.				
D8008	1SS133-T2	SI. DIODE				
D8009	SLR-342MG-T16	L. E. D. (GRN)	EC0			
D8010	SPR-39MVWF	L. E. D.	POWER			
D8011	1SS133-T2	SI. DIODE				
D8012	SLR-3420U-T16	L. E. D. (ORG)	TIMER			
D8013	SLR-342YY-T16	L. E. D. (YLW)	3D-PHONIC			
D8014	MTZJ6. 8 (A) -T2	ZENER DIODE				•
D8015-16	MTZJ15 (C) -T2	ZENER DIODE				
D8017	MTZJ6. 2(B)-T2	ZENER DIODE				
D8018	MTZJ5. 1 (B) -T2	ZENER DIODE				•
TRANSI	STOR					
08001	2PC1815 (YG) -T	SI. TRANSISTOR				
98002	DTC144ES-T	DIGI. TRANSISTOR				
Q8003-04	DTA144ESA-T	DIGI. TRANSISTOR				

	VZ2EP Symbol No.	Part No.	Part Name	Description	Local
_	OTHERS				
		CEMG002-001Z	FUSE CLIP		*
		CM36548-001-E	L. E. D. HOLDER		*
		CM35921-A04-H	CDS HOLDER		
Δ	F8901	QMF51D2-3R15J1	FUSE	3. 15A	*
_	J8001	QMS3007-C01	JACK	HEADPHONE	
	J8004	CEMN011-001	JACK	V4 IN	
	JBD05	CEMN011-002	JACK	LAIN	
	J8006	CEMN011-003	JACK	R4IN	*
Δ	LF8901	CELF012-001J7	LINE FILTER		
Δ	LF8902	CELF012-001J7	LINE FILTER		*
_	\$8001	CESP001-001	PUSH SWITCH	CH UP/DOWN	
	S8002	CESP001-001	PUSH SWITCH	MENU	
Δ	S8901	QSP4K21-C01	PUSH SWITCH	MAIN POWER	*

DOLBY PW BOARD ASS'Y (SMB0D002B-U2)

Р	Part No.	Part Name	Descripti	on		Loc
ТС						
Q.	ETN1CM-476Z	E CAP.	47 µ F	16V	M	
N	ICTO3CH-680AY	CHIP CAP.	68 p F	1600V	Н	
0	ETN1CM-476Z	E CAP.	47 μ F	16V	M	
	CB21HK-473AY	CHIP CAP.	0.047 µ F	50V	K	
	ICB21HK-223AY	CHIP CAP.	0. 022 u F	50V	K	
	CB21HK-102AY	CHIP CAP.	1000 p F	50V	K	
	ETN1CM-476Z	E CAP.	47 μ F	16V	M	
	CB21HK-473AY	CHIP CAP.	0.047μF	50V	ĸ	
Q	ETN1CM-476Z	E CAP.	47 u F	16V	М	
	CTO3CH-680AY	CHIP CAP.	68 p.F	1600V	H	
	CB21HK-473AY	CHIP CAP.	0.047 µ F	50V	ĸ	
	ETN1CM-476Z	E CAP.	47 µ F	16V	M	
		CHIP CAP.	0. 047 μF	50V	ĸ	
	ICB21HK-473AY					
	ICB21HK-102AY	CHIP CAP.	1000 p F	50V	K	
	ETN1CM-476Z	E CAP.	47 µ F	16V	M	
N	CTO3CH-220AY	CHIP CAP.	22 p F	1600V	н	
	ETN1HM-106Z	E CAP.	10 μ F	50V	М	
	ICB21HK-102AY	GHIP CAP.	1000 p F	50V	K	
	ICF21CZ-105AY	C CAP.	1 μ F	16V	Z	
N	CB21HK-102AY	CHIP CAP.	1000 p F	50V	K	
N	CF21CZ-105AY	C CAP.	1 μ F	16V	Z	
Q	ETNIHM-106Z	E CAP.	10 µ F	50V	M	
N	CB21HK-102AY	CHIP CAP.	1000 p F	50V	K	
	ICF21CZ-105AY	C CAP.	1μF	16V	Z	
Q	ETNIHN-106Z	E CAP.	10 µ F	50V	м	
N	ICB21HK-102AY	CHIP CAP.	1000 p F	50V	K	
	CF21CZ-105AY	C CAP.	1 u F	16V	Z	
	ICB21HK-102AY	CHIP CAP.	1000 p F	50V	ĸ	
	ETN1CH-107Z	E CAP.	100 µ F	16V	Ä	
		C CAP.	0.1 µ F	25V	ž	
	CF21EZ-104AY					
	ETN1CM-227Z	E CAP.	220 µ F	16V	M	
N	ICF21EZ-104AY	C CAP.	0.1μF	25 V	Z	
	ETN1CH-107Z	E CAP.	100 µ F	16V	M	
	CF21EZ-104AY	C CAP.	0.1μF	25V	Z	
	CB21HK-103AY	CHIP CAP.	0.01 μ F	50V	K	
	ICB21HK-223AY	CHIP CAP.	0. 022 μ F	50V	K	
N	ICB21HK-182AY	CHIP CAP.	1800 p F	50V	K	
N	ICF21CZ-105AY	C CAP.	1 µ F	16V	Z	
	ICB21HK-103AY	CHIP CAP.	0.01 µF	50V	K	
	CB21HK-223AY	CHIP CAP.	0. 022 μ F	50V	K	
N	C821HK-182AY	CHIP CAP.	1800 p F	50V	K	
	ICF21CZ-105AY	C CAP.	1 µ F	167	Z	
	ETN1CM-107Z	E CAP.	100 µ F	16V	M	
	CB21HK-103AY	CHIP CAP.	0.01 µ F	50V	K	
	ICB21HK-182AY	CHIP CAP.	1800 p F	50V	ĸ	
		C CAP.	1 µ F	167	ž	
	CF21CZ-105AY			50V	K	
	CB21HK-103AY	CHIP CAP.	0.01 µ F			
N	NCB21HK-223AY	CHIP CAP.	0. 022 μ F	50¥	K	

CAPACI CO215	TOR				
CO215					
00210	NCB21HK-182AY	CHIP CAP.	1800 p F 50\	/ K	
C0216	NCF21CZ-105AY	C GAP.	1 u F 16	/ Z	
C0217	NCB21HK-223AY	CHIP CAP.	0.022 µF 50V		
C0218-21	NCTO3CH-470AY	CHIP CAP.	47 pF 1600V		
C0305					
	GETNICH-476Z	E CAP.	47 µF 16	V M	
C0401	QETN1HM-226Z	E CAP.	22 uF 50	V M	
C0403-04	NGB21HK-272AY	GNIP GAP.	2700 pF 501	7 MI 7 K	
C0405-06 C0407-10	QETN1HM-225Z NCF21EZ-104AY	E CAP.	2. 2 µ F 50\		
C0431	QETN1HN-226Z	G GAP. E GAP.	0.1 µF 251		
			22 µ F 50		
C0432	QETN1CM-477Z	E CAP.	470 µF 161		
C0433-34	NCB21HK-272AY	CHIP CAP.	2700 pF 50\		
C0435	QETN1HM-225Z	E CAP.	2. 2 µ F 50		
C0436-39	NCF21EZ-104AY	C CAP.	0.1 µF 25\		
C0440	QETN1HM-225Z	E CAP.	2. 2 μ F 50\	/ м	
C0451	NCF21CZ-105AY	C CAP.	1 µ F 16	Z	
C0452	NCTO3CH-100AY	CHIP CAP.	10 pF 1600V		
C0453	NCB21HK-103AY	CHIP CAP.	0.01 µ F 50V		
C0454	NCB21HK-473AY	CHIP CAP.	0.047 µF 50V		
C0456	GETNICH-107Z	E CAP.	100 µF 16		
C0457	NCF21CZ-105AY	C CAP.	1 µ F 16\		
C0458	NCB21HK-473AY	CHIP CAP.	0.047 μF 50V		
C0459	QETN1CM-107Z	E CAP.	0.047μF 50V 100μF 16V		
				-	
C0460	NCB21HK-103AY	CHIP CAP.	0.01 μ F 50V		
C0461	NCTO3CH-100AY	CHIP CAP.	10 p F 1600V		
C0462	NCF21CZ-105AY	CER. CAP.	1 µ F 16V		
C0465	NCF21CZ-105AY	CER. CAP.	1 µ F 16\		
C0501-02	NCF21CZ-105AY	C GAP.	1 µ F 16\	Z	
C0503-04	NCTO3CH-100AY	CHIP CAP.	10 pF 1600V	н	
C0505	QETN1HM-106Z	E CAP.	10 µ F 50V	M	
C0507-08	GETNIHM-106Z	E CAP.	10 μ F 50V		
C0531	NCF21CZ-105AY	C CAP.	1 µ F 16V	z	
C0532	NCTO3CH-100AY	CHIP CAP.	10 pF 1600V		
C0536	GETN1HM-106Z	E CAP.	10 5 500		
			10 μ F 50V		
C0551 C0553	NCF21CZ-105AY NCT03CH-100AY	C CAP.	1 µ F 16V		
		CHIP CAP.	10 p F 1600V		
C0555 C0556	QETN1HM-106Z QETN1CM-476Z	E CAP.	10 μ F 50V		
C0557	QETN1HM-106Z	E CAP. E CAP.	47 μ F 16V 10 μ F 50V		
C0601-02	QETN1HM-106Z	E CAP.	10 µ F 50V		
C0603-04 C0701-05	QETN1CM-476Z NCB21HK-222AY	E CAP. CHIP CAP.	47 μ F 16V 2200 p F 50V		
	HODZIIN ZZZAI	Offir OAF.	2200 pr 304	n	
COIL	25.422.44.427.00				
L0101-04	CE40344-4R7YL	INDUCTOR	4. 7 μ Η		
L0701-05	CE40344-100YL	INDUCTOR	10 µ H		
L0706	CE41433-001Z	BEADS CORE			
DIODE					
D0103	MA3062 (M) -X	ZENER DIODE			
D0201	MA3062 (M) -X	ZENER DIODE			
D0451	MA141WK-X	SI. DIODE			
D0452	MA3062 (M) -X	ZENER DIODE			
D0453	MA141WK-X	SI. DIODE			
D0454	MA3062 (M) -X	ZENER DIODE			
D0501-02	MA3150 (M) -X	ZENER DIODE			
D0503	MA3062-X	ZENER DIODE			
00522	H424E0/W\ V	TONED DIGGE			
D0532 D0552	MA3150 (N) -X MA3150 (N) -X	ZENER DIODE ZENER DIODE			
		TENER STORE			
TRANSI 00302		DIGI. TRANSISTOR			
	DTC144EK-X DTC323TK-X				
Q0451-52		DIGI. TRANSISTOR			
Q0453	DTC144EK-X	DIGI. TRANSISTOR			
Q0501	2SA1162 (YG) -X	SI. TRANSISTOR			
00502-03	DTC323TK-X	DIGI. TRANSISTOR			
Q0531	2SA1162 (YG) -X	SI. TRANSISTOR			
Q0532	DTC323TK-X	DIGI. TRANSISTOR			
Q0551	2SA1162 (YG) -X	SI. TRANSISTOR			
Q0553	DTC323TK-X	DIGI. TRANSISTOR			

No.51239C

No.51239C

PRINTED WIRING BOARD PARTS LI	PRINTED	WIRING	BOARD	PARTS	LIST
-------------------------------	---------	--------	--------------	--------------	------

MAIN DW ROADD ASS'Y (SMR-1003R-112)

Loca		nn.	tic	Descrip	Part Name	ARD ASS'Y (SMB	Symbol No.
Loca		, ii		Descrip	TELL NAME	rere no.	Cymber Ho.
						OR	RESIST
	J	1/2W	2	470k 9	CR	QRD12CJ-474SX	R1001
1	J	1 W	Ω	100 9	OM R	QRG019J-101S	R1206
	J	1/2W	Ω	180	CR	QRD123J-181SX	R1229
	J	1 W	Ω		OM R	QRG019J-101S	R1231
					NET. R	QR8069J-103	R1748
	J	1/2W	Ω	82 9	C R	QRD12CJ-820SX	R1798-99
						TOR	CAPACI
4	Z	25V	F	0.1 μ	C CAP.	QCZ0120-104MZ	C1001
	M	50V	F	100 μ	E CAP.	QETC1HM-107Z	C1002
*	Z	25V		0.1μ	C CAP.	QCZ0120-104MZ	C1003
	M	16V		100 μ	E CAP.	QETN1CM-107Z	C1004
	Z	25V		0.1 μ	C CAP.	QCZ0120-104MZ	C1005
	M	16V		220 μ	E CAP.	QETN1CM-227Z	C1006
	M	50V		10 μ	E CAP.	GETN1HM-106Z	C1008
:	ш	16V		47 μ	E CAP.	QETN1CM-476Z	C1011
	Z	25V	F	0.1μ	C CAP.	QCZ0120-104MZ	C1012
1 1 1 1 1 1 1	Ñ	16V		220 µ	E CAP.	QETN1CM-227Z	C1201
	M	50V		1 μ	E CAP.	QETN1HM-105Z	C1203-04
	ű.	50V	Ė	3.3 µ	E CAP.	QETN1HM-335Z	C1205-06
	Ñ						
	Ñ	16V		220 μ	E CAP.	QETN1CM-227Z	C1207
		16V	Ŀ	47 μ	E CAP.	GETN1CM-476Z	C1209
	M	16V		470 μ	E CAP.	GETN1CM-477Z	C1210
•	M	50V	F	1 μ	E CAP.	QETN1HM-105Z	C1212-13
3 3 3 4 3	M	50V		3.3 μ	E CAP.	QETN1HM-335Z	C1214-15
*	M	50V	F	1 μ	E CAP.	QETNIHM-105Z	C1216-17
	M	16V		47 μ	É CAP.	QETN1CM-476Z	C1218-19
*	M	50V	F	1 μ	E CAP.	QETN1HM-105Z	C1220
	M	16V	F	100 µ	E CAP.	QETN1CM~107Z	C1221-22
*	M	50V		1 μ	E CAP.	QETN1HM-105Z	C1223-24
	M	16V	F	47 µ	E CAP.	QETN1CM-476Z	C1231-32
	M	16V		220 µ	E CAP.	GETN1CM-227Z	C1301
	Z	25 V	F	0.1μ	C CAP.	QCZ0120-104MZ	C1302
	M	16V	F	47 μ	E CAP.	QETN1CM-476Z	C1304
	M	50V		22 µ	E CAP.	QETN1HM-226Z	C1305
*	Ĵ	50V		0.022 μ	M CAP.	OFLC1HJ-223MZ	C1306
•	M	50V	e	1 μ	E CAP.	QETN1HM-105Z	C1307-08
•	ž	25V					
	2,	50V		0.1μ	C CAP. TF CAP.	QCZ0120-104MZ	C1311-13
:	J Z	25V	_	0.47 μ 0.1 μ	C CAP.	QFV71HJ-474MZ QCZ0120-104MZ	C1315
	2	254	r	υ. τμ	O DAP.	GC20120-104#2	C1316
	J	50V	F	0.15 µ	TF CAP.	QFV71HJ-154MZ	C1317
	Z	25V	F	0.1μ	C CAP.	QCZ0120-104NZ	C1318
	Z	25V	F	0.1 µ	C CAP.	QCZ0120-104MZ	C1320
*	J	50V		12 p	C CAP.	QCT25CH-120Z	C1321-22
	Z	25V		0.1μ	C CAP.	QCZ0120-104MZ	C1323
	Z	25V	F	0.1μ	C CAP.	QCZ0120-104MZ	C1325-26
	M	16V		220 µ	E CAP.	QETN1CM-227Z	C1327
	Z	25V		0.1μ	C CAP.	QCZ0120-104MZ	C1328-32
	J	50V	F	0. 01 μ	M CAP.	QFLC1HJ-103MZ	C1335
*	M	50V		1 μ	BP E CAP.	QEN61HM-105Z	C1341
	ž	25V		0.1 4	C CAP.	QCZ0120-104MZ	C1348
	ž	25V		0. 1 µ	C CAP.	QCZ0120-104MZ	C1350-52
	Ĵ	50V			TF CAP.		
	M	50V		0. 22 μ		QFV71HJ-224MZ	C1353-55
				1 μ	E CAP.	QETN1HM-105Z	C1357
***************************************	M	50V 50V	F	4.7μ 1μ	E CAP. E CAP.	QETN1HM-475Z QETN1HM-105Z	C1358 C1359
	м	50V					
;	ũ			3.3 µ	E CAP.	QETN1HM-335Z	C1360
•		16V		100 μ	E CAP.	QETN1CM-107Z	C1363
	M	10V		2200 µ	E CAP.	QEZ0106-228R	C1365
*	J	50V		2 p	C CAP.	QCT25CH-2ROZ	C1610-11
*	M	16V		47 μ	E CAP.	QETN1CM-476Z	C1612
	M	50V	F	10 μ	E CAP.	GETN1HN-106Z	C1615
*	Z	25V	F	0.1μ	C CAP.	QCZ0120-104MZ	C1616
•	M	50 V	F	1 μ	E CAP.	QETN1HM-105Z	C1617
	M	50V		1μ	E CAP.	QETN1HM-105Z	C1623-24

-28VVZZEP ⚠ Symbol No.	Part No.	Part Name	Description	Local
10				
100101	SAA73671-X	I. C (DIGI-MOS)		
100102	TMS57052BFT	1. C (M)		
100103	LC32464M-80X	I. C (D-RAM)		
IC0104-05	PCM1717E-X	I. C (MONO-ANA)		
IC0111	BA4558F-X	I. C (MONO-ANA)		
100201-02	UPC324G2-X	I. C (MONO-ANA)		
100301	TC4052BF-X	1. C (DIGI-MOS)		
IC0401	TDA7315D	1. C (DIGI-OTHER)		
100431	TDA7315D	I. C (DIGI-OTHER)		
100451-52	BA4558F-X	I. C (MONO-ANA)		
100501	BA4558F-X	1. C (MONO-ANA)		
100551	BA4558F-X	I. C (MONO-ANA)		
OTHERS	1			
EF0101-05	CE42482-103Y	EMI FILTER		*
J0001	CEMN036-004	PIN JACK		
J0002	CEMN061-001	PIN JACK		
K0101-02	CE42681-001Y	BEADS CORE		
K0104-07	CE42681-001Y	BEADS CORE		
K0108	CE41433-001Z	BEADS CORE		
X0101	NAX0001-001X	CRYSTAL		

AV TERMINAL PW BOARD ASS'Y (SMB0J001B-U2)

Δ	Symbol No.	Part No.	Part Name	Description	on		Local
	CAPACI C0102-04 C0301	TOR QEKC1CM-106GMZ QEKC1CM-476MZ	E CAP. E CAP.	10 μ F 47 μ F	16V 16V	M	*
_	COIL				-		
	L0101-04	CELP017-5R6Y	PEAKING COIL	5.6 µ H			*
	L0105	CE41832-001	LEAD CORE				*
	L0201-04	CELP017-5R6Y	PEAKING COIL	5.6 µ H			*
	L0205	CE41832-001	LEAD CORE				*
	L0301-02	CELP017-5R6Y	PEAKING COIL	5.6 μ H			*
	L0303	CE41832-001	LEAD CORE				*
	O T H E R S J0001-03	CE40529-006	SCART CONNECTOR				

AUTO ASPECT MODULE PW BOARD ASS'Y (SJF0W001A(U))

△ Symbol No.	Part No.	Part	Name	Description	Local
OTHERS	SJFOWOO1A(U)	AUTO	ASPECT MOD	DULE	

50

52

ZZEP Symbol No.	Part No.	Part Name	Descriptio	n		Loca
CAPACI	TOR			ocu.	7	
01625	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
C1626	QETN1HM-106Z	E CAP.	10 µ F	50V	M	
C1627	QETN1HM-105Z	E GAP.	1μF	50V	M	
C1629-30	QETN1HM-105Z	E CAP.	1 µ F	50V	M	
C1631	GETNIHM-106Z	E CAP.	10 µ F	50V	M	
	QCZ0120-104MZ	C CAP.	0.1 µ F	25¥	Z	
C1632	QCZ0120-104#2	E CAP.	10 µ F	50V	M	
C1633 C1645	QETN1HM-106Z QETN1HM-106Z	E CAP.	10 μ F	50V	M	
01040	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1646	GETN1HM-106Z	E CAP.	10 µ F	50V	M	
C1647		E CAP.	10 µ F	50V	M	
C1649	QETN1HM-106Z	M CAP.	0.033 µ F	50V	J	
C1660	QFLC1HJ-333MZ	C CAP.	0.1 µ F	25V	Z	
C1703	QCZ0120-104MZ	E CAP.	100 µ F	100	M	
C1704	QETNIAN-107Z		3 p F	50V	J	
C1705-06	QCT25CH-3ROZ	C CAP.	301	25V	ž	
C1707	QCZ0120-104MZ	C CAP.	0.1μF	23V	2	
C1708	QFLC1HJ-333MZ	M CAP.	0.033 µ F	50V	J Z	
C1709	QCZ0120-104MZ	C CAP.	0.1 µF	25V		
C1710	QETN1EM-476Z	E CAP.	47 µ F	25V	M	
C1711	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1712	QFLC1HJ-333MZ	M CAP.	0.033 μ F	50V	J	
C1712	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1714	GETN1HM-474Z	E CAP.	0.47 µ F	50V	M	
C1715	QETN1CM-476Z	E CAP.	47 µ F	16V	M	
C1716	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
C1717	QETN1HM-105Z	E CAP.	1 µ F	50V	M	
	QFLC1HJ-563MZ	M CAP.	0.056 µ F	50V	J	
C1751		TF CAP.	0. 22 µ F	50V	J	
C1752	QFV71HJ-224MZ	C CAP.	0.1 µ F	25V	Z	
C1754	QCZ0120-104MZ	C CAP.	0.1 µF	25V	ž	
C1756-57	QCZ0120-104MZ		220 µ F	100	Ñ	
C1758 C1759	QETN1AM-227Z QCZ0120-104MZ	E CAP. C CAP.	0.1μF	25V	ž	
			15 p F	50V	J	
C1760-61	QCT25CH-150Z	C CAP.	0.1 µ F	25V	ž	
C1762	QCZ0120-104MZ	C CAP.	475	16V	ŭ	
C1763	QETN1CN-476Z	E CAP.	47 µ F			
C1764	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
C1766-68	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
C1769-71	QETN1HM-106Z	E CAP.	10 μ F	50V	M	
C1772	QETNICH-476Z	E CAP.	47 µ F	16V	M	
C1773	GETNICH-107Z	E CAP.	100 µ F	16V	M	
C1776	QCZ0120-104MZ	C CAP.	0.1μF		Z	
C1780	QFLC1HJ-104MZ	M CAP.	0.1 µ F	50V	J	
C1781	QCZ0120-104MZ	C CAP.	0.1µF	25V	Z	
	QFLC1HJ-223MZ	M CAP.	0.022 µ F	50V	J	
C1782 C1801	QETN1EN-107Z	E CAP.	100 μ F	25V	M	
COIL L1001-02	CELP026-8R2Z	PEAKING COIL	8.2 µ H			
L1003	CELP026-221Z	PEAKING COIL	220 µ H			
L1601	CELP027-220Z	PEAKING COIL	22 µ H			
L1602	GELP027-180Z	PEAKING COIL	18 μ H			
	CELCO05-2R5J7	CHOKE COIL	2.5 µ H			
L1611-12		PEAKING COIL	4.7 μ Η			
L1701	CELP026-4R7Z	PEAKING COIL	8.2 µ H			
L1702	CELP026-8R2Z	SERVING COLL	4. 7 μ H			
L1753	CELPO26-4R7Z	PEAKING COIL				
L1791-92	CELP026-8R2Z	PEAKING COIL	8. 2 µ H			
DIODE		TENED DIADE				
D1201-11	MTZJ13(8)-T2	ZENER DIODE				
D1212-13	1SS133-T2	SI. DIODE				
D1214-15	MTZJ13 (B) - T2	ZENER DIODE				
D1343	188133-12	SI. DIODE				
		SI. DIODE				
D1345-48 D1349	1\$\$133-T2 Mtzj6, 2(B)-T2	ZENER DIODE				

188146-T2 188133-T2 188133-T2 188133-T2 188133-T2 188133-T2 MTZJ6. 2 (B) -T2 188133-T2 MTZJ6. 8 (A) -T2 188133-T2 T O R 2PC1815 (YG) -T DTG22215-T 2PA1015 (YG) -T	SI. DIODE ZEMER DIODE ZEMER DIODE SI. DIODE ZEMER DIODE SI. DIODE SI. TRANSISTOR DIGI. TRANSISTOR		
1SS133-T2 1SS136-T2 1SS136-T2 1SS133-T2 1SS133-T2 1SS133-T2 MTZJ6. 2 (B) -T2 1SS133-T2 MTZJ6. 8 (A) -T2 1SS133-T2 T O R 2PC 815 (YG) -T	SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE ZENER DIODE ZENER DIODE SI. DIODE ZENER DIODE SI. DIODE SI. DIODE		
185133-T2 185146-T2 185133-T2 185133-T2 MTZJ6. 2 (B) -T2 185133-T2 MTZJ6. 8 (A) -T2 185133-T2 T O R 2001815 (YG) -T	SI. DIODE SI. DIODE SI. DIODE SI. DIODE ZENER DIODE ZENER DIODE ZENER DIODE SI. DIODE SI. DIODE		
1\$\$146-12 1\$\$133-12 1\$\$133-72 1\$\$133-72 MTZJ6. 2 (B) -12 1\$\$133-12 MTZJ6. 8 (A) -12 1\$\$133-72 T O R 2021815 (YG) -1 DTG32315-T	SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE ZENER DIODE ZENER DIODE SI. DIODE SI. TRANSISTOR		
1SS133-T2 ************************************	S1. DIODE S1. DIODE ZENER DIODE S1. DIODE ZENER DIODE S1. DIODE S1. DIODE S1. TRANSISTOR		
1SS133-T2 ************************************	S1. DIODE S1. DIODE ZENER DIODE S1. DIODE ZENER DIODE S1. DIODE S1. DIODE S1. TRANSISTOR		
158133-T2 MTZJ6. 2 (B) -T2 158133-T2 MTZJ6. 8 (A) -T2 158133-T2 T O R 29C1815 (YG) -T DTC323TS-T	SI. DIODE ZENER DIODE SI. DIODE ZENER DIODE ZENER DIODE SI. DIODE		
188133-T2 MTZJ6. 2 (B) -T2 188133-T2 MTZJ6. 8 (A) -T2 188133-T2 TOR TOR 2PC1815 (YG) -T DTC323TS-T	ZENER DIODE SI. DIODE ZENER DIODE SI. DIODE SI. TRANSISTOR		
MTZJ6. 2 (B) -T2 1SS133-T2 MTZJ6. 8 (A) -T2 1SS133-T2 T O R 2PC1815 (YG) -T DTC323TS-T	ZENER DIODE SI. DIODE ZENER DIODE SI. DIODE SI. TRANSISTOR		
MTZJ6. 8 (A) -T2 1SS133-T2 T O R 2PC1815 (YG) -T DTC323TS-T	ZENER DIODE SI. DIODE SI. TRANSISTOR		
MTZJ6. 8 (A) -T2 1SS133-T2 T O R 2PC1815 (YG) -T DTC323TS-T	ZENER DIODE SI. DIODE SI. TRANSISTOR		
1SS133-T2 T O R 2PC1815 (YG) -T DTC323TS-T	SI. DIODE		
2PC1815 (YG) -T DTC323TS-T			
2PC1815 (YG) -T DTC323TS-T			
DTC323TS-T			
	SI. TRANSISTOR		
2PC1815 (YG) -T	SI. TRANSISTOR		
2PA1015 (YG) -T	OI TRANSISIUM		
	SI. TRANSISTOR		
ZPA1015 (YG) -T	SI. TRANSISTOR		
2PA1015 (YG) -T	SI. TRANSISTOR		
2PC1815 (YG) -T	SI. TRANSISTOR		
2PA1015 (YG) -T	SI. TRANSISTOR		
	SI TOANSISTUK		
2PC1815 (YG) -T	SI. TRANSISTOR		
0044045 (VO) T	21 72.112.127.22		
	DIGI. IRANSISIOR		
2PA1015 (YG) -T	SI. TRANSISTOR		
DTC124ES-T	DIGI. TRANSISTOR		
2PC1815 (YG) -T	SI, TRANSISTOR		
2PA1015 (YG) -T	SI. TRANSISTOR		
		· · · · · · · · · · · · · · · · · · ·	
CXA1545AS	I. C (MONO-ANA)		
TDA9143			
	I. C (MONO-ANA)		
_/8LKU5E-MA	I. C (MONO-ANA)		
AT24C16-32WP2	I. C (EP-ROM)		
AT24C16-10PC	1. C (EP-ROM)		
SDA30C163	I. C (MICRO-COMP)		
	I C (D_DAM)		
C4053BP	I. C (DIGI-MOS)		
IN 1280-Q	I. C (DIGI-MOS)		
1000400 004	NO.105 511 750		
		×3	
CEMS006-068	IC SOCKET		
CEMS007-032	IC SOCKET		
CEMS007-008	I. C. SOCKET		
	2PPC1815 (YG) -T DTC02215-T 2PPA1015 (YG) -T DTC144ES-T 2PPC1815 (YG) -T DTC144ES-T 2PPC1815 (YG) -T DTC124ESA-T 2PPC1815 (YG) -T 2PPC1815 (YG	PROTESTS TRANSISTOR TRANS	STATE STAT

△ Symbol No.	Part No.	Part Name	Description	Loca
OTHERS				
K1001	CE41433-001Z	BEADS CORE		*
K1003	GE41433-0017	BEADS CORE		*
K1005	CE41492-001Z	CHOKE COIL		
K1009	CE41433-001Z	BEADS CORE		
K1011	CE41433-001Z	BEADS CORE		
K1013-14	GE41433-001Z	BEADS CORE		
K1602	CE41433-001Z	BEADS CORE		*
K1701-02	CE41433-001Z	BEADS CORE		*
MD1		100Hz PWB ASSY	(Refer to P56)	
MD2		IF PWB ASSY	(Refer to P55)	
MD3		SUB TEXT PB ASSY	(As follows)	
TU1001	CEEK481-A01	TUNER	(NE (O(IOWE)	
X1311		CRYSTAL		
	CE40749-001Z			- 1
X1312	CE40668-001Z	CRYSTAL		
X1610	CE42546-001Z	CRYSTAL		•
X1701	CST8. COMTW	CER. RESONATOR		*
X1751	QAX0307-001	CER. RESONATOR		
X1752	QAX0351-001Z	X TAL		*

SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)

This PW Board Ass'Y is included in the above MAIN PW Board Ass'Y.

🛚 Symbol No.	Part No.	Part Name	Description	on		Loca
CAPACI	TOR					
C1001	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	*
C1003	QCT25CH-270Z	C CAP.	27 p F	50V	J	*
C1005	OCT25CH-150Z	C CAP.	15 p F	50V	J	*
C1362	QCT25CH-270Z	C CAP.	27 p F	50V	j	*
C1701	QETN1HM-226Z	E CAP.	22 u F	50V	M	*
C1702-04	QETN1HM-106Z	E CAP.	10 μ F	50V	M	*
C1705-07	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	*
COIL						
L1301	CELP027-390Z	PEAKING COIL	39 µ H			*
TRANSI	STOR					
Q1347	2SK301 (P) -T	F. E. T.				*
Q1701-03	2PC1815 (YG) -T	SI. TRANSISTOR				*
1 C						
IC1001	TC74ACOOAP	l C				

IF PW BOARD ASS'Y(SMB0F701B-U2)

Symbol No.	Part No.	above MAIN PW Board As Part Name	Descripti	ōħ.		Le
RESISTO	В					
		CHIP MG R	41.0	4 /4 OW	,	
R0103	QRSA08J-102YL			1/10W	J	
	QRSA08J-121YL	CHIP MG R	120 Ω	1/10W	J	
	QRSA08J-151YL	CHIP MG R	150 Ω	1/10W	J	
	QRSA08J-181YL	CHIP MG R	180 Ω	1/10W	J	
R0107	QRSA08J-151YL	CHIP MG R	150 Ω	1/10W	J	
CAPACIT	OR					
C0020	NCB21HK-472AY	CHIP CAP.	4700 p F	507	K	
C0022-25	NCB21HK-472AY	CHIP CAP.	4700 p F	50V	K	
	NCB21HK-103AY	CHIP CAP.	0.01 µ F	50V	K	
	NCB21HK-472AY	CHIP CAP.	4700 p F	50V	K	
	NCTO3CH-102AY	CHIP CAP.	1000 p F	1600V	H	
	QETN1CM-107Z	E CAP.	100 µ F	16V	М	
	NCB21HK-103AY	CHIP CAP.	0.01 µ F	50V	ĸ	
	QETN1CM-107Z	E CAP.	100 μ F	16V	M	
C0044	NCB21HK-103AY	CHIP CAP.	0. 01 μ F	50V	K	
	NCB21HK-103AY	CHIP CAP.	0.01 μ F	50V	K	
	QETN1CM-227Z	E CAP.	220 µ F	16V	M	
	QETN1HM-105Z	E CAP.	1 µ F	50V	M	
C0051	NCB21HK-472AY	CHIP CAP.	4700 p F	50V	K	
C0052	QAT3110~100A	TRIM CAP.	10 p F	100V		
C0053	NCTO3CH-6ROAY	CHIP CAP.	6 p F	1600V	H	
	NCB21HK-103AY	CHIP CAP.	0. 01 μ F	50V	K	
C0055	QETN1CM-107Z	E CAP.	100 μ F	16V	ш	
	QETN1HM-474Z	E CAP.	0.47 µ F	500	ii.	
		CHIP CAP.	1000 p F		H	
	NCTO3CH-102AY					
	NCB21HK-472AY	CHIP CAP.	4700 p F	50V	K	
	QAT3110-100A	TRIM CAP.	10 p F	100V		
	NCT03CH-120AY	CHIP CAP.	12 p F	1600V	Н	
C0061	NCTO3CH-7ROAY	CHIP CAP.		1600V	н	
C0062	QETN1HM-474Z	E CAP.	0.47 µ F	50V	М	
C0063	NCB21HK-103AY	CHIP CAP.	0. 01 μ F	50V	К	
	NCB21HK-472AY	CHIP CAP.	4700 p F	50V	K	
	GETN1HM-105Z	E CAP.	1 µ F	50V	ù	
	NCTO3CH-120AY	CHIP CAP.	12 p F	16004	н	
		CHIP CAP.		50V	ĸ	
	NCB21HK-103AY		0.01 μ F 33 μ F	50V	ù	
	QETN1HM-336Z	E CAP.				
	NCB21HK-472AY Qetn1cm-4762	CHIP CAP. E CAP.	4700 p.F 47 μ.F	50V 16V	K M	
	NCTO3CH-391AY	CHIP CAP.	390 p F		Н	
	NCTO3CH-121AY	CHIP CAP.	120 p F		н	
C0104	NCTO3CH-181AY	CHIP CAP.	180 p F	1600V	Н	
	NGF21EZ-104AY	C CAP.	0.1μF	25V	Z	
	GETN1HM-335Z	E GAP.	3.3 µ F	50V	M	
	NGB21HK-332AY	CHIP CAP.	3300 p F	50V	K	
	GETN1HM-105Z	E CAP.	1 µ F	50V	M	
	QFLC1HJ-683MZ	M CAP.	0.068 µF	50V	Ž	
20144	OF THI UN 2257	E CAP.	2 2 5	50V	u	
	GETN1HM-335Z		3.3 µ F	50V	K	
	NCB21HK-222AY	CHIP CAP.	2200 p F			
	QFLC1HJ-183MZ	M CAP.	0.018 µ F	50V	J	
	QETN1CH-476Z	E CAP.	47 µ F	16V	M	
	QETN1HM-106Z	E CAP.	10 µ F	50V	M	
	QETN1HM-105Z	E CAP.	1 µ F	50V	M	
C0605	GETN1CM-477Z	E CAP.	470 µ F	16V	M	
	NCB21HK-103AY	CHIP CAP.	0.01 μ F	50V	K	
CF0010-11	FTP40. 40MF	CERAMIC FILTER				
TRANSFO	RMER					
T0020	QQR0626-001	I.F. TRANSF.				
	CELT001-307	C. WAVE TRANSF.				
	CELT001-306	C. WAVE TRANSF.				
COIL						
	CELP041-R47	PEAKING COIL	0.47 µ H			
L0021	CE41131-1R5Y	INDUCTOR	1.5 µ H			
	OL 101 11101					

28WZ2EP △ Symbol No.	Part No.	Part Name	Description	Local
COIL				
L0030	CE41131-2R2Y	INDUCTOR	2. 2 µ H	*
L0040	CE41131-120Y	INDUCTOR	12 µ H	*
L0040	CE41131-100Y	INDUCTOR	10 µ H	*
L0050-53	CE41131-8R2Y	INDUCTOR	8. 2 µ H	
L0070	CE41131-5R6Y	INDUCTOR	5. G μ H	:
L0071	CE41131-8R2Y	INDUCTOR	8. 2 <u>u</u> H	
L0101	CE41131-6R8Y	INDUCTOR	6. 8 µ H	•
L0102-03	CE41131-100Y	INDUCTOR	10 µ H	*
L0104	CE41131-5R6Y	INDUCTOR	5. 6 μ H	*
DIODE				
D0020-21	1\$\$85~T5	SI. DIODE		
D0050-51	1\$\$85-T5	SI. DIODE		
TRANSI				
Q0012	2SC5083 (L-P) -T	SI. TRANSISTOR		*
00080	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0101	2SC2712 (YG) -X	SI. TRANSISTOR		*
00102	2SA1162 (YG) -X	SI. TRANSISTOR		*
00103	DTC144EK-X	DIGI. TRANSISTOR		*
00104	2SC2712 (YG) -X	SI. TRANSISTOR		*
00106	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0107	2SA1162 (YG) -X	SI. TRANSISTOR		*
00108	DTC144EK-X	DIGI. TRANSISTOR		*
Q0109-11	2SC2712 (YG) -X	SI. TRANSISTOR		*
00120-26	DTC144EK-X	DIGI. TRANSISTOR		*
Q0601-02	2SC2712 (YG) -X	SI. TRANSISTOR		*
1 C				
100010	TA8865BN	I. C (MONO-ANA)		
OTHERS				
CF0100	TPS5.5MW	CERAMIC FILTER		*
CF0140	CSB503F30-T2	CER. RESONATOR	47 0 4 40	*
R0609	QRZ0054-470M	FR	47 Ω 1/4W J	*
SF0010	GAX0316-001	SAW FILTER		*
SF0011	CE42574-702	SAW FILTER		
SF0012	CE42606-701	SAW FILTER		

100Hz PW BOARD ASS'Y(SMB0Z002B-U2)

This PW Board Ass'Y is included in the above MAIN PW Board Ass'Y.

Loca		on	Descripti	Part Name	Part No.	Symbol No.
					OR	RESIST
	J	1/10W	15kΩ	M. F. R	NRVAG2D-1502NY	R0302
	J	1/10W	11kΩ	CHIP MF R	NRVA02D-1102NY	R0303
					TOR	CAPACI
	M	16V	220 µ F	E CAP.	QETN1CM-227Z	C0001
:	Z	25V	0. 1 µ F	C CAP.	NCF21EZ-104AY	C0002
	M	16V	220 µ F	E CAP.	QETN1CH-227Z	C0003
	Z	25V	0.1 µ F	G CAP.	NCF21EZ-104AY	C0004
	M	16V	220 μ F	E CAP.	QETN1CM-227Z	C0005
1	Z	25V	0.1 μ F	C CAP.	NGF21EZ-104AY	C0006
:	M	16V	220 µ F	E CAP.	QETN1CM-227Z	C0007
	Z	25V	0.1μF	G CAP.	NCF21EZ-104AY	C0008
	м	10V	1000 µ F	E CAP.	GETN1AN-108Z	C0009-10
	J	50V	150 p F	C CAP.	NCS21HJ-151AY	C0101
	H	1600V	39 p F	CHIP CAP.	NCTO3CH-390AY	C0102
	J	50V	270 p F	CER, CAP.	NCS21HJ-271AY	C0103
	M	50V	1 µ F	E CAP.	QETN1HM-105Z	C0106
	Z	50V	0. 22 µ F	CHIP C CAP.	NCF21HZ-224AY	C0107
	Z	25V	0.1 u F	C CAP.	NCF21EZ-104AY	C0108
	M	16V	47 μ F	E CAP.	QETN1CM-476Z	C0109
	J	50V	150 p F	C CAP.	NGS21HJ-151AY	C0111
	H	1600V	39 p F	CHIP CAP.	NCTO3CH-390AY	C0112
	J	50V	270 p F	CER. CAP.	NCS21HJ-271AY	C0113
	M	50V	1 u F	E CAP.	QETNIHM-105Z	C0116
	Z	50V	0. 22 u F	CHIP C CAP.	NCF21HZ-224AY	C0117
	Z	25V	0.1 µ F	C CAP.	NCF21EZ-104AY	C0118
	J	50V	150 p F	C CAP.	NCS21HJ-151AY	C0121
	H	1600V	39 p F	CHIP CAP.	NCTO3CH-390AY	C0122

Symbol No.	Part No.	Part Name	Description	Loc
CAPACI	TOR			
C0123	NCS21HJ-271AY	CER. CAP.	270 pF 50V J	
C0126	QETNIHM-106Z	E CAP.	10 µF 50V M	
G0127	NGF21HZ-224AY	CHIP G CAP.	0.22 uf 50v I	
C0128	NCF21EZ-104AY	C CAP		
00131	NGFETEZ-194AY	G CAP.	O. THE 25V Z	
C0132	QETNOJ#-227Z	E CAP.	220 µF 6.3V N	
C0133-34	NCF21EZ-104AY	C CAP.	0.1 µF 25V Z	
C0135-36	QETNOJM-227Z	E CAP.	220 µ F 6.3V M	
C0137	NCF21EZ-104AY	C CAP.	0.1μF 25V Z	
C0138	DETNOJM-227Z	E CAP.	220 µF 6.3V M	
C0139	NCF21EZ-104AY			
		C CAP.	0.1 μF 25V Z	
CO142-47	NCF21EZ-104AY	G GAP.	0.1 µF 25V Z	
CO148	QETNOJM-227Z	E CAP.	220 μ F 6.3V M	
CO149-54	NCF21EZ-104AY	C CAP.	0.1μF 25V Z	
C0155	NCTO3CH-390AY	CHIP CAP.	39 p F 1600V H	
C0201-06	NCF21EZ-104AY	C CAP.	0.1 µF 25V Z	
C0207	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C0208-13	NCF21EZ-104AY	C CAP.		
C0208-13				
	NCTO3CH-100AY	CHIP CAP.	10 p F 1600V H	
C0221-38	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	
C0301	QETNOJM-227Z	E CAP.	220 µ F 6.3V M	
C0302	NCF21EZ-104AY	C CAP.	0.1 µF 25V Z	
C0303	QETNOJM-227Z	E CAP.	220 µF 6.3V M	
C0304	NCF21EZ-104AY	C CAP.	0.1μF 25V Z	
C0307-08	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	:
00309	QETNICH-107Z	E CAP.	100 µF 16V N	
CO310		E GAP.		
	QETNOJM-227Z	E CAP.	220 μ F 6.3V M	
CO311	NCF21EZ-104AY	C CAP.	0.1μF 25V Z	
CO313	NCS21HJ-152AY	CHIP C CAP.	1500 p F 50V J	
C0314-18	NCF21EZ-104AY	C CAP.	0.1 µF 25V Z	
C0321	QETN1HM-105Z	E CAP.	1 µ F 50V N	
C0322	NCF21HZ-224AY	CHIP G CAP.	0. 22 µF 50V Z	
00323	NCF21EZ-104AY	C CAP.	0.1μF 25V Z	
C0324	GETN1CM-476Z	E CAP.		
			47 μ F 16V M	,
C0331 C0332	GETN1HM-105Z NCF21HZ-224AY	E CAP. CHIP C CAP.	1 μ F 50V M 0. 22 μ F 50V Z	4
C0333	NCF21EZ-104AY	C GAP.	0.1μF 25V Z	
00341	QETNIHM-106Z	E CAP.	10 μ F 50V N	
00342	QETN1HM-105Z	E CAP.	1 # F 50V M	1
00343	NCF21EZ-104AY	C CAP.	0.1 µF 25V Z	
C0401	NCB21HK-103AY	CHIP CAP.	0.01 μ F 50V K	
00402	NCF21EZ-104AY	C CAP.	0.1 µF 25V Z	
00403	QETNOJM-227Z	E CAP.		
			220 µ F 6. 3V N	
00404	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	
00405	GETN1CM-107Z	E CAP.	100 µ F 16V ₩	1
C0406	NCF21EZ-104AY	C CAP.	0.1 µF 50V Z	,
20407	NGF21EZ-104AY	C CAP.	0.1 µF 25V Z	
00408	QETN1CH-107Z	E CAP.	100 µF 16V M	
00409-10	NCTO3CH-270AY	CHIP CAP.	27 p F 1600V H	
00411	NCTO3CH-180AY	CHIP CAP.	18 pF 1600V H	
00412-13	NCB21HK-103AY	CHIP CAP.		
0415	NCF21EZ-104AY	C CAP.	0.01 μ F 50V K 0.1 μ F 25V Z	
COIL				
L0001-02	CE40344-4R7YL	INDUCTOR	4. 7 μ Η	
L0003-04	CE40344-100YL	INDUCTOR	10 µ H	
0005-07	CE40344-4R7YL	INDUCTOR	4. 7 µ H	
L0101	CE41131-3R3Y	INDUCTOR	2 2 4	
	0541404 2004		3.3 µ H	
L0111	CE41131-3R3Y	INDUCTOR	3.3 µ H	
_0121	CE41131-3R3Y	INDUCTOR	3.3 µ H	*
L0301	CE41131-100Y	INDUCTOR	10 μ H	4
_0401-02	CE40344-330YL	INDUCTOR	33 μ H	
DIODE	MA3051 (L) -X	ZENER DIODE		
D0301				

Symbol No.	Part No.	Part Name	Description	L
TRANSI				
Q0101	2SC2712 (YG) -X	SI. TRANSISTOR		
Q0102	2SA1162 (YG) -X	SI. TRANSISTOR		
Q0103	2SC2712 (YG) -X	SI. TRANSISTOR		
Q0104	2SA1162 (YG) -X	SI. TRANSISTOR		
00111	2SC2712 (YG) -X	SI, TRANSISTOR		
00112	2SA1162 (YG) -X	SI. TRANSISTOR		
00113	2SC2712 (YG) -X	SI. TRANSISTOR		
Q0114	2SA1162 (YG) ~X	SI. TRANSISTOR		
40114	25A1102(14) A	or. maiororon		
00121	2SC2712 (YG) -X	S1. TRANSISTOR		
00122	2SA1162 (YG) -X	SI. TRANSISTOR		
Q0123	2SC2712 (YG) -X	SI. TRANSISTOR		
00124	2SA1162 (YG) -X	SI. TRANSISTOR		
Q0131	2SC2712 (YG) -X	SI. TRANSISTOR		
00321	2SC2712 (YG) -X	SI. TRANSISTOR		
Q0322	2SA1162 (YG) -X	SI. TRANSISTOR		
Q0323	2SC2712 (YG) -X	SI. TRANSISTOR		
UU323	2302112(10)-A	GI. IRANGIGIUR		
00324	28A1162 (YG) -X	SI. TRANSISTOR		
Q0331	2SC2712 (YG) -X	SI. TRANSISTOR		
00332	2SA1162 (YG) -X	SI. TRANSISTOR		
00333	2SC2712 (YG) -X	SI. TRANSISTOR		
90334	2SA1162 (YG) -X	SI. TRANSISTOR		
00341	2SC2712 (YG) -X	SI. TRANSISTOR		
90342	2SA1162 (YG) -X	SI. TRANSISTOR		
Q0343	2SC2712 (YG) -X	SI. TRANSISTOR		
	*********	04 7044016700		
90344-45	2SA1162 (YG) -X	SI. TRANSISTOR		
Q0351	2SC2712 (YG) -X	SI. TRANSISTOR		
Q0361	2SC2712 (YG) -X	SI. TRANSISTOR		
Q0401	2\$C2712 (YG) -X	SI. TRANSISTOR		
1 C				
1C0101	SDA9205-2-W	I. C (DIGI-MOS)		
100201	SDA9272	I. C (MICRO-COMP)		
100201	SDA9251-X	I. C (SAM)		
		I. C (SAM)		
IC0203-04	SDA9253			
100301	SDA9280-W	I. C (DIGI-OTHER)		
IC0401	SDA9257	I. C (DIGI-OTHER)		
100402	MC74F04M-X	1 C ~		
OTHERS				
DL0321	NQR0241-001X	L. P. F		
DL0331	NQR0241-001X	L. P. F		
DL0341	NQR0242-001X	L. P. F		
EF0001-05	CE42482-103Y	EMI FILTER		
EF0006	CE42482-470Y	EMI FILTER		
EF0101	CE42482-470Y	EMI FILTER		
		EMI FILTER		
EF0111	CE42482-470Y			
EF0121	CE42482-470Y	EMI FILTER		
EF0321	CE42482-470Y	EMI FILTER		
EF0331	CE42482-470Y	EMI FILTER		
EF0341-42	CE42482-470Y	EMI FILTER		
EF0351	CE42482-470Y	EMI FILTER		
EF0361	CE42482-470Y	EMI FILTER		
	CE41433-001Z	BEADS CORE		
K0001		X TAL		
X0401	QAX0350-001	A IAL		

No.51239C

Symbol No.	Part No.	Part Name	Descript	ion		Lo
RESIS	TOR					
R2409	QRX019J-1R0S	MF R	1 Ω	1 W	J	
R2411	QRG029J-221	OM R	220 ♀	2W		
R2412-13	QRX019J-1R8S	MF R		1 W	J.	
R2412-13	QRV141F-6802AY	MF R	1.8 Ω		J	
			68kΩ	1/4W	F	
R2419	QRV141F-7870AY	MF R	787 Ω	1/4W	F	
R2421	QRV141F-1003AY	MF R	100k Ω	1/4W	F	
R2422	QRV141F-1501AY	MF R	1. 5k Ω	1/4W	F	
R2508	QRV141F-2002AY	MF R	20k Ω	1/4W	F	
R2509	QRV141F-4701AY	MF R	4. 7k Ω	1/4W	F	
R2516	QRG039J-272	OM R	2. 7k Ω	3₩	J	
R2517	QRG039J-122	OM R	1. 2k Q	3 W	J	
R2533	QRX039J-5R6	MF R	5.6 Ω	3 W	J	
R2571	QRG029J-223	OM R	22k Ω	2₩	J	
R2581	QRF104J-100	UNF R	10 Ω	10W	J	
R2902	QRF154K-4R7	UNF R	4.7 Ω	15W	K	
R2905	QRG039J-333	OM R	33k Ω	3₩	J	
R2907	QRM059J-R22	MP R	0.22 Ω	5W	J	
R2910	QRG039J-393	OM R	39k Q	3W	J	
R2951	QRF074J-102	UNF R	. 1kΩ	7W	J	
R2952	QRG029J-123	OM R	12k Ω	2W	Ĵ	
R2953	QRX039J-5R6	MF R	5.6 ♀	3W	Ĵ	
R2962-63	QRG019J-220S	OM R	22 0	1₩	J	
R2991	QRZ0057-825	CR	8.2₩Ω	1 W	J	
CAPAC	TOR					
C2401	QFLC2AJ-104MZ	M CAP.	0.1μF	100V	J	
C2402	QETC1VM-337Z	E CAP.		35V	M	
		TE OAD	330 µ F			
C2403	QFV71HJ-104MZ	TF CAP.	0.1 µ F	50V	J	
C2405	QFV71HJ-474MZ	TF CAP.	0. 47 μ F	50V	J.	
C2406	QFLC2AJ-104MZ	M CAP.	0.1μF	1007	J	
C2407	QFLC2AK-223MZ	M CAP.	0.022 μ F	100V	K	
C2410	QFV71HJ-474MZ	TF CAP.	0.47 μ F	50V	J	
C2411	QETN1HM-226Z	E CAP.	22 μ F	50V	M	
02412	QETMIVM-108	E CAP.	1000 μ F	35V	м	
C2415	QCT25CH-470Z	C CAP.	47 p F	50V	J	
C2501	QFV71HJ-124MZ	TF CAP.	0. 12 μ F	50V	Ĵ	
C2502	QETN1CM-108Z	E CAP.	1000 µ F	16V	M	
C2503	QETN2AM-106Z	E CAP.	10 µ F	1000	ŭ.	
C2504	QETN1AM-227Z	E CAP.		100	H	
			220 μ F			
C2505 C2507	OFLC2AJ-102MZ OFLC1HJ-104MZ	M CAP. M CAP.	1000 p F 0.1 μ F	100V 50V	J	
					-	
C2508 C2509	QFM72DK-103M QETN1AM-227Z	M CAP. E CAP.	0. 01 μ F 220 μ F	200V 10V	K M	
C2520		TF CAP.	0.220 # 5	500	J	
	QFV71HJ-224MZ		0. 22 μ F			
C2521	0FZ0117-1701S	MPP CAP.		2000V±		
C2522	QFZ0117-4701S	MPP CAP.		2000V±		
C2523	QFM72DK-683M	M CAP.	0.068 μ F	200V	K	
C2525	0FZ0117-4701S	MPP CAP.		2000V±		
C2526	QFZ0119-684S	MPP CAP.	0. 68 μ F	200V	J	
C2527	QFZ0119-514S	MPP CAP.	0.51 μ F	200V	J	
C2528	QFZ0128-404S	MPP CAP.	0.4μF	400V :	±3%	
C2529	QFZ0128-204S	MPP CAP.	0. 2 μ H		±3%	
C2533	QFZ0194-534	MPP CAP.	0.53 µ F	250V	J	
C2536	QFZ0119-534S	MPP CAP.	0.53 µ F		±3%	
C2537	QETM2CM-227	E CAP.	220 µ F	160V	M	
	QEZ0195-475MZ	E CAP.		50V	ũ	
C2541 C2544	QETN1EM-476Z	E CAP.	4.7μF 47μF	25V	ū	
		E CAP.		100	м	
C2545	QETN1AM-107Z		100 µ F		-	
C2546	QFLC1HK-104MZ	M CAP.	0.1 μ F	50V	K	
C2551	QEN61HM-105Z	BP E CAP.	1 µ F	50V	M	
C2554	GETN2EN-106Z	E CAP.	10 μ F	250V	M	
C2555-56	GETN1EM-108Z	E CAP.	1000 µ F	25V	M	
C2561	QCZ0122-681A	C CAP.	680 p F	2000V	K	
C2581	GETCOJM-107Z	E CAP.	100 µ F	6. 3V	H	
C2582	QETN1CM-476Z	E CAP.	47 µ F	16V	W	

NZ2EP Symbol No.	Part No.	Part Name	Descripti	on		Loc
CAPACI	TOR		A 47 C	400V	м	
C2902	QFZ9040-473N	MM CAP.	0. 47 μ F	400V	P	
C2903	QCZ9034-472A	C CAP.	0.047 μ F			
C2904-05	QCZ9034-472A	C CAP.	4700 p F	400V	P	
C2906	QEZ0199-227M	E CAP.	220 µ F			
	QCZ0122-151A	C CAP.	150 p F	2000Y	K	
C2908		C CAP.	220 p F	2000V	K	
C2909	QCZ0122-221A	E CAP.	220 µ F	25V	M	
C2910	GETNIEM-227Z	E CAP.	470 µ F	25V	M	
C2913	QETC1EM-477Z	E OM .				
C2914	QFLC1HK~104MZ	M CAP.	0.1μF	50V 50V	K	
C2916	QFLC1HJ-102MZ	M CAP.	1000 p F			
C2919	QETN1HM-105Z	E CAP.	1μF	50V	M	
C2920	QFLC1HJ-472MZ	M CAP.	4700 p F	50V	J	
	QEZ0203-227	E CAP.	200 μ F	160V	M	
C2951	QEHC1CM-108MZ	E CAP.	1000 µ F	16V	M	
C2952	GEUDION 100MC	E CAP.	1000 μ F	16V	M	
C2953	GEHB1CM-108M	E CAP.	2200 µ F	10V	M	
C2954	QEZ0106-228R	E VAF.				
C2966-68	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C2970	QEHC1HM-336MZ	E CAP.	33 µ F	50V	M	
	QEHC1CM-107MZ	E CAP.	100 μ F	16V	M	
C2971	QETN1AM-228Z	E CAP.	2200 µ F	107	96	
C2972		E CAP.	220 µ F	100	M	
C2973	QEHC1AM-227MZ		2200 µ F	16V	M	
C2975	QEHB1CM-228M	E CAP.		100	M	
C2976	QEZ0106-228R	E CAP.	2200 µ F		M	
C2977	GEHCIAN-107MZ	E CAP.	100 μ F	104	-	
C2978	QCZ0122-151A	C CAP.		2000V	K	
C2981	GETN1EN-227Z	E CAP.	220 μ F		M	
	QETN1HM-106Z	E CAP.	10 µ F	50V	34	
C2982-83	0070041 4714	C CAP.	470 p F	400V	ĸ	
2 C2991	QCZ9041-471A	C CAP.	330 p F		M	
∆ C2992	QCZ9041-332A	U UAF.	223 61			
TRANS	FORMER					
T2501	CE42672-001	DRIVE TRANSF				
	0080706-001	PINC. TRANSF.				
T2521		H. V. T (SERVICE)				
1 T2551	CETH021-00AJ1	DAF TRANSF.				
T2561	CE42692-001J1	ONLIGH TRANSF				
∆ T2901	CETS089-001J4	SWITCH, TRANSF.				
T2981	QQT0147-001	POWER TRANSF.				
COIL						
L2521	QQR0707-002	LINEARITY COIL				
L2541	QQR0705-001	CHOKE COIL				
L2551	CELC901-056J6	HEATER CHOKE				
	CELC055-100	CHOKE COIL	ا بر 10	Н		
L2901-02	OF1 COOK - 2BE 17	CHOKE COIL	2.5 μ			
L2903	CELC005-2R5J7					
L2951	CELC901-046J6	HEATER CHOKE	5.6 µ	н		
L2952-53	CELCO57-5R6Z	CHOKE COIL	υ. υμ	·		
DIODE						
D2401	MTZJ75-T2	ZENER DIODE				
D2402	BYD330-T3	St. DIODE				
	1SS133-T2	SI. DIODE				
D2403		ZENER DIODE				
D2404	MTZJ7.5S-T2					
D2405	13S133-T2	SI. DIODE				
D2406-09	MA700A-T2	SI. DIODE				
D2410	1SS133-T2	SI. DIODE				
D2411	MTZJ22(B)-T2	ZENER DIODE				
	DVD32C_T3	SI, DIODE				
D2501	BYD33G-T3	ZENER DIODE				
D2502	MTZJ7.5S-T2					
D2504	1SS133-T2	SI. DIODE				
D2505	MTZJ6. 8 (A) -T2	ZENER DIODE				
D2506	1SS146-T2	SI. DIODE				
	1SS81-T5	S1. DIODE				
D2507		SI. DIODE				
D2508 D2521	188133-T2 FMV-3FU-C1	SI. DIODE				
02321						
D2525	V11CA-C1	SI. DIODE				
D2541	MTZJ6. 8 (C) -T2	ZENER DIODE				

△ Symbol No.	Part No.	Part Name	Description	Loc
DIODE				
D2542	155133-72	SI. DIODE		
D2550-51	BYD33G-T3	S1. DIQDE		
D2552-53	BYW958-20			
		SI.DIODE		
D2556	BYD33G-T3	S1. DIODE		
D2571	MTZJ33 (B) -TB MTZJ15 (B) -T2	ZENER DIODE		
D2581		ZENER DIODE		
D2582	MTZJ7. 5 (B) -T2	ZENER DIODE		
D2585	188133-T2	SI. DIODE		
D2901	D3\$860	BRIDGE DIODE		
D2902	BYD33M-T3	SI. DIODE		
D2903	1SR124-400A-T2	SI. DIODE		
D2904-05	BY033D-T3	SI. DIODE		
D2951-52	RU4C-C1	SI. DIODE		
D2953	BYD33M-T3	SI. DIODE		
D2954-55	BYW958-20	SI. DIODE		
D2956	SF6L20U	SI. DIODE		
02958-59	SF6L20U	SI. DIODE		
02960	MTZJ5. 1 (A) -T2	ZENER DIODE		
D2961	MTZJ5. 6 (A) -T2	ZENER DIODE		
D2962-66	1SS133-T2	SI. DIODE		
D2968	1S\$133-T2	SI. DIODE		
D2970	1SS133-T2	SI. DIODE		
D2981-84	1N4003-T2	SI. DIODE		
D2985	188133-12	SI. DIODE		
D2986	MTZJ8. 2(8)-T2	ZENER DIODE		
D2987	188133-12	SI. DIODE		
TRANSI	STOR			
02401-02	DTC144ESA-T	DIGI. TRANSISTOR		
92403	2PC1815 (YG) -T	SI. TRANSISTOR		
02404	DTC144ESA-T	DIGI. TRANSISTOR		
02405-06	2PC1815 (YG) -T	S1. TRANSISTOR		
Q2501	BSN274			
Q2505		F. E. T.		
	2PA1015 (YG) -T	SI. TRANSISTOR		
02506 02521	2PC1815 (YG) -T 2SC5406-RL	ST. TRANSISTOR SI. TRANSISTOR		
02523	1RF640	F. E. T.		
02526	DTC124ESA-T	DIGI. TRANSISTOR		
Q2541	2SD1408 (0Y) -LB	SI. TRANSISTOR		
Q2551	DTA124ESA-T	DIGI. TRANSISTOR		
02552	DTC144ESA-T	DIGI. TRANSISTOR		
92581	2SA949 (Y) C1	SI. TRANSISTOR		
Q2582	DTC144ESA-T	DIGI. TRANSISTOR		
Q2901	2SK2148-C1	F. E. T.		
02955	2PC1815 (YG) -T	SI. TRANSISTOR		
Q2981 Q2982	2SC2655 (Y) -T 2PC1815 (YG) -T	SI. TRANSISTOR SI. TRANSISTOR		
		31.7370104		
I C IC2401	LA7841	L C (MONO-ANA)		
		I. C (MONO-ANA)		
102501	TDA9151B	I. C (DEF-PRO)		
102541	UPC4558C	I. C (MONO-ANA)		
102901	MC44603P	L. C (MONO-ANA)		
102951	SE135N	I. C (HYBRID)		
1C2952	LM2940CT-12	I.C (MONO-ANA)		
1C2953	UPC2409AHF	I. C (MONO-ANA)		
102954	K1A7808P1	I. C (MONO-ANA)		
102955-56	PQ05RF21	I. C (MONO-ANA)		
102957	K1A7808P1	I. C (MONO-ANA)		
OTHERS				
FR2551	QRHO17J-1ROM	FR	1Ω 1W J	
N FR2552	QRH017J-1ROM	FR	1Ω 1W J	
♪ FR2553	QRZ0054-4R7M	F R	4.7 Ω 1/4W J	
K2402	CE41433-001Z	BEADS CORE		

	Symbol No.	Part No.	Part Name	Description	Local
_	OTHERS	1			
	K2502-05	QQR0679-001	FERRITE BEADS		
	K2506	CE41433-001Z	BEADS CORE		*
	K2901-04	CE42050-001Z	CORE		*
	K2951	CE41433-001Z	BEADS CORE		*
	PC2521	TLP621 (B)	I. C (PH. COUPLER)		*
Δ	PC2901	TLP721F (D4-GR)	I. C (PH. COUPLER)		*
	RY2981	CESK028-002	RELAY		*
	TH2901	CEKP002-003	W. P. THERMISTOR		*
	VA2561	ERZV10V112C1	VARISTOR		*

CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2)

Symbol No.	Part No.	Part Name	Description	n		Loca
RESIST	OR					
R3106	QRD14CJ-100SX	C R	10 Ω	1/4W	J	
R3119	QRG029J-391A	OM R	390 Ω	2W	J	
R3229-31	QRG019J-823S	OM R	82k Q	1 W	J	
CAPACI	TOR					
C3101	GETN1HN-106Z	E CAP.	10 µ F	50V	M	
C3102	QFLC1HK-103MZ	M CAP.	0. 01 μ F	50V	K	
C3103	QETN1HM-335Z	E CAP.	3.3 µ F	50V	M	
C3104	QETN1CM-107Z	E CAP.	100 μ F	16V	M	
C3107	QETC2CM-106Z	E CAP.	10 μ F	160V	M	
C3110	QETC2CM-106Z	E CAP.	10 μ F	160V	M	
C3111	QETCOJM-107Z	E CAP.	100 μ F	6.3V	M	
C3118	QETN1HM-106Z	E CAP.	10 µ F	50V	М	
C3204-09	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
C3210-12	QFH62EK-104MZ	MM CAP.	0.1 μ F	250V	K	
C3218	QETM2EM-336	E CAP.	33 µ F	250V	М	
C3219	QFZ0097-223M	M M CAP.	0.022 µF 1	250V	K	
C3221	QETC2EM-106Z	E CAP.	10 μ F	250V	М	
C3301	QETN1CM-107Z	E CAP.	100 μ F	16V	M	-
COIL						
L3101	CELP026-150Z	PEAKING COIL	15 µ H			
L3201-03	CELP026-4R7Z	PEAKING COIL	4.7 μ Η			
DIODE						
D3101-02	RH1S-T3	SI. DIODE				
D3103	MA165-T2	SI. DIODE				
D3151	1SS133-T2	SI. DIODE				
D3204-06	EU01N-T2	SI. DIODE				
D3301	188252-T2	SI. DIODE				
D3302-03	1SS133-T2	SI. DIODE				
TRANSI						
Q3101	2SA1309A (QR) -T	SI. TRANSISTOR				
Q3102-03	2SC3311A (QR) ~T	SI. TRANSISTOR				
03104	2SA1309A (QR) -T	SI. TRANSISTOR				
Q3105	2SA1837	SI. TRANSISTOR				
03106	2504793	SI. TRANSISTOR				
Q3107	2SC3311A (QR) -T	SI. TRANSISTOR				
Q3108	2SC1906-T	SI. TRANSISTOR				
Q3301	2PA1015 (YG) -T	SI. TRANSISTOR				
03302	2SC2655 (Y) -T	SI. TRANSISTOR				
93303	2PA1015 (YG) -T	SI. TRANSISTOR				
I C						
1C3201-03	TDA61110	1. C (MONO-ANA)				
OTHERS K3101-04	CE41492-001Z	CHOKE COIL				
K3101-04 R3109		F R	560 ♀	1 W	J	
SK3001	QRH017J-561# CE42670-001	C. R. T. SOCKET	200 2		v	

AUDIO	PW BOARD	Y'22A	ISMR	LAPOOR.	1121

Symbol No.	Part No.	Part Name	Description		Local	
CAPACI	TOR					
C6101	QFV71HJ-684MZ	TF CAP.	0.68 μ F	50V	J	
C6102-03	QETM1EM-228	E CAP.	2200 µ F	25V	W	
C6105	QETN1HM-105Z	E CAP	1 µ F	50V	M	
C6106	QETN1CM-107Z	E CAP.	100 µ F	16V	M	
C6108	QFV71HJ-684MZ	TF GAP.	0.68 u F	50V	J	
C6109-10	QFV71HJ-104MZ	TF CAP.	0.1 µ F	50V	J	
C6112	QETN1HM-105Z	E CAP.	1 µ F	50V	M	
C6113	QETN1CM-107Z	E CAP.	100 µ F	16V	M	
C6115-16	QFV71HJ-684MZ	TF CAP.	0.68 µ F	50V	J	
C6117-18	QFV71HJ-104MZ	TF CAP.	0.1 u F	50V	J	
C6121	QFLC1HJ-103MZ	M CAP.	0. 01 μ F	50V	J	
DIODE						
D6101-04	MTZJ27 (B) -T2	ZENER DIODE				
D6105	MTZJ5. 1 (B) -T2	ZENER DIODE				
D6107	1SS133-T2	St. DIODE				
D6108	MA700-T2	SI. DIODE				
D6112	1SS133-T2	SI. DIODE				
D6115	1\$\$133-T2	S1. DIODE				
TRANSI	STOR					
Q6101	DTC144ESA-T	DIGI. TRANSISTOR				
Q6102	2PA1015 (YG) -T	SI. TRANSISTOR				
Q6104	2PA1015 (YG) -T	SI. TRANSISTOR				
06105	DTC144E\$A-T	DIGI. TRANSISTOR				
96106-07	DTC323TS-T	DIGI. TRANSISTOR				
1 C						
106101-02	TDA2052V	I. C (MONO-ANA)				
OTHERS						
K6001-02	CE41433-001Z	BEADS CORE				

FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2)

⚠ Symbol No.	Part No.	Part Name	Description			Local	
CAPACI							
C8003	QETN1HM-106Z	E CAP.	10 μ F	50V	M	*	
C8004	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	*	
C8005	QETN1CM-476Z	E CAP.	47 µ F	16V	М	*	
C8009	QETN1CM-476Z	E CAP.	47 µ F	16V	M		
C8012	QETN1HM-106Z	E CAP.	10 µ F	50V	M	*	
C8013-14	QETN1HM-105Z	E CAP.	1 μ F	50V	M	*	
C8017-18	QETN1HM-106Z	E CAP.	10 μ F	50V	M	*	
C8020-21	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	*	
△ C8901	QFZ9040-474N	MF CAP.	0.47 μ F			*	
COIL							
L8001	CE41832-001	LEAD CORE				*	
L8002-03	CELPO17-5R6Y	PEAKING COIL	5.6 µ H			*	
L8010-11	CELP017-270Y	PEAKING COIL	27 μ H			*	
L8012	CE41832-001	LEAD CORE				*	
DIODE							
D8007	P1201	C. D. S.				*	
D8008	1SS133-T2	SI. DIODE				*	
D8009	SLR-342MG-T16	L. E. D. (GRN)	EC0			*	
D8010	SPR-39MVWF	L. E. D.	POWER			*	
D8011	1SS133-T2	SI. DIODE					
D8012	SLR-342DU-T16	L. E. D. (ORG)	TIMER			*	
D8013	SLR-342YY-T16	L. E. D. (YLW)	3D-PHONIC			*	
D8014	MTZJ6. 8 (A) -T2	ZENER DIODE					
D8015-16	MTZJ15 (C)-T2	ZENER DIODE					
D8017	MTZJ6, 2 (B) -T2	ZENER DIODE				*	
D8018	#TZJ5. 1 (B) -T2	ZENER DIODE				*	
TRANSI							
Q8001	2PC1815 (YG) -T	SI. TRANSISTOR				*	
08002	DTG144ES-T	DIGI. TRANSISTOR				*	
98003-04	DTA144ESA-T	DIGI. TRANSISTOR					

No.51239C

	Symbol No.	Part No.	Part Name	Description	Local
	I C IC8001 IC8002	GP1U2B1Q BA4558	IFR DETECT UNIT		*
Δ	OTHERS F8901 J8001 J8004 J8005 J8006	CEMG002-0012 CM36548-001-E CM35921-A04-H QMF51D2-3R15J1 QMS3007-C01 CEM0011-001 CEM0011-002 GEM0011-003	FUSE CLIP L.E. D. HOLDER CDS HOLDER FUSE JACK JACK JACK JACK JACK	3.15A HEADPHONE V4IN L4IN R4IN	*
<u> </u>	LF8901 LF8902 S8001 S8002 S8901	CELF012-001J7 CELF012-001J7 CESP001-001 CESP001-001 QSP4K21-C01	LINE FILTER LINE FILTER PUSH SWITCH PUSH SWITCH PUSH SWITCH	CH UP/DOWN MENU MAIN POWER	*

Symbol No.	BOARD ASS'Y (SN Part No.	Part Name	Descriptio	n		Local
CAPACI	TOR					
C0101	QETN1CM-476Z	E CAP.	47 µ F	16V	M	*
C0102	NCTO3CH-680AY	CHIP CAP.	68 p F 1		Н	*
C0103	QEINICM-476Z	E CAP.	47 µ F	16V	M	*
C0104	NCB21HK-473AY	CHIP CAP.	0.047 μ F	50V	K	*
C0105	NCB21HK-223AY	CHIP CAP.	0. 022 μ F	50V	K	*
C0106	NCB21HK-102AY	CHIP CAP.	1000 p F	50V	K	*
C0107	GETN1CM-476Z	E CAP.	47 µ F	16V	M	*
C0108	NCB21HK-473AY	CHIP CAP.	0. 047 μ F	50V	K	*
CO109	QETNICM-476Z	E CAP.	47 μ F	16V	M	
C0110	NCTO3CH-680AY	CHIP CAP.	68 p F 1		H	*
C0111	NCB21HK-473AY	CHIP CAP.	0. 047 μ F	507	K	*
C0112-13	QETN1CM-476Z	E CAP.	47 µ F	16V	M	
C0115	NGB21HK-473AY	CHIP CAP.	$0.047 \mu F$	50V	K	
C0116-25	NCB21HK-102AY	CHIP CAP.	1000 p F	50V	K	*
C0126	QETN1CM-476Z	E CAP.	47 µ F	16V	M	
CO127-28	NCT03CH-220AY	CHIP CAP.	22 p F 1	600V	Н	*
C0129	QETN1HM-106Z	E CAP.	10 μ F	50V	M	
C0130	NCB21HK-102AY	CHIP CAP.	1000 p F	50V	K	
C0131	NCF21CZ-105AY	G CAP.	1 µ F	16V	Z	*
C0132	NCB21HK-102AY	CHIP CAP.	1000 p F	50V	K	*
C0133	NCF21CZ-105AY	G CAP.	1 µ F	16V	Z	4
C0134	QETN1HM-106Z	E CAP.	10 μ F	507	М	*
C0135	NCB21HK-102AY	CHIP CAP.	1000 p F	50V	K	
C0136	NCF21CZ-105AY	C CAP.	1 μ F	16V	Z	*
C0137-38	QETN1HM-106Z	E CAP.	10 µ F	50 V	M	4
C0139	NCB21HK-102AY	CHIP CAP.	1000 p F	50V	K	*
C0140	NCF21CZ-105AY	C CAP.	1 µ F	16V	Z	
C0141	NCB21HK-102AY	CHIP CAP.	1000 p F	50V	K	
C0142	GETNICM-107Z	E CAP.	100 μ F	16V	M	
C0143	NCF21EZ-104AY	C CAP.	0.1 μ F	25V	Z	
C0144	OFTN1CM-227Z	E CAP.	220 μ F	16V	14	
C0145	NCF21EZ-104AY	C CAP.	0.1μF	25V	Z	•
C0146	QETN1CM-107Z	E CAP.	100 µ F	16V	М	
C0147-53	NCF21EZ-104AY	C GAP.	0.1 µ F	25V	Z	
C0201	NCB21HK-103AY	CHIP CAP.	0.01 μ F	50V	K	1
C0202	NCB21HK-223AY	CHIP CAP.	0. 022 μ F	50V	K	1
C0203	NCB21HK-182AY	CHIP CAP.	1800 p F	50V	K	
C0204	NCF21CZ-105AY	C CAP.	1 µ F	16V	Z	2
C0205	NCB21HK-103AY	CHIP CAP.	0.01 µ F	50V	K	
C0206	NCB21HK-223AY	CHIP CAP.	0. 022 μ F	50V	K	;
C0207	NCB21HK-182AY	CHIP CAP.	1800 p F	50V	K	:
C0208	NCF21CZ-105AY	C CAP.	1 µ F	16V	Z	
C0209	QETN1CM-107Z	E CAP.	100 µ F	16V	M	
C0209	NCB21HK-103AY	CHIP CAP.	0.01 µ F	50V	K	
C0210	NCB21HK-182AY	CHIP CAP.	1800 p F	50V	K	
C0211	NCF21CZ-105AY	C CAP.	1 µ F	16V	Z	
C0212	NCB21HK-103AY	CHIP CAP.	0.01 µ F	50V	K	
C0213	NCB21HK-103AY	CHIP CAP.	0. 022 µ F	50V	K	

L		on	Descript	Part Name	Part No.	Symbol No.
						CAPACI
	K	50V	1800 p F	CHIP CAP.	NCB21HK-182AY	C0215
	Z	16V	1 µ F	C CAP.	NCF21CZ-105AY	CO216
	ĸ	50V	0.022 µ F	CHIP CAP.	NCB21HK-223AY	C0217
				CHIP CAP.	NCTO3CH-470AY	C0218-21
	H	1000A	47 p F			C0305
	M	16V 50V	47 µ F 22 µ F 47 µ F	E CAP. E CAP. E CAP.	QETN1CM-4762	C0401
	ũ	16V	47 6	E CAP	QEINIHW-226Z QEINICM-476Z	C0402
	ĸ	50V	2700 p F	CHIP CAP.	NCB21HK-272AY	C0403-04
	M	50V	2. 2 µ F	E CAP.	GETN1HM-225Z	CO405-06
	Z	25V	0.1 µ F	C CAP.	NCF21EZ-104AY	C0407-10
	Ñ	50V	22 μ F	E CAP.	QETN1HM-226Z	C0431
	Ñ	16V	470 µ F	E CAP.	QETN1CM-477Z	C0432
	ĸ	50V		CHIP CAP.	NCB21HK-272AY	C0433-34
	Ñ.	50V	2700 p F 2. 2 μ F	E CAP.	QETN1HM-225Z	C0435
			2. 2 4 5	C CAP.	NCF21EZ-104AY	C0436-39
	Z M	25V 50V	0.1μF 2.2μF	E CAP.	QETN1HM-225Z	C0440
	_			0.010	MOEDIAT INC.	00451
	Z	16V	1μF	C CAP.	NCF21CZ-105AY NCT03CH-100AY	CO451 CO452
	Н	1600V		CHIP CAP.		CO452
	K	50V	0.01 μ F	CHIP CAP.	NCB21HK-103AY	
	K	50V	0. 047 μ F	CHIP CAP.	NCB21HK-473AY	C0454
	М	16V	100 µ F	E CAP.	QETN1CM-1072	CO456
	Z	1 6 V	1 µ F	C CAP.	NCF21CZ-105AY	00457
	K	50V	0.047 μ F	CHIP CAP.	NCB21HK-473AY	00458
	M	16V	100 μ F	E CAP.	GETN1CM-107Z	00459
	K	50V	0. 01 μ F	CHIP CAP.	NCB21HK-103AY	00460
	H	1600V	10 p F	CHIP CAP.	NCTO3CH-100AY	00461
	Ž	16V	0.01 u F	CER. GAP.	NCF21CZ-105AY	00462
	ž	16V	0.01 µ F	CER. CAP.	NCF21CZ-105AY	0465
	Z	16V	1 µ F	C CAP.	NCF21CZ-105AY	00501-02
	Ĥ	1600V	10 p F	CHIP CAP.	NCTO3CH-100AY	0503-04
	M	50V	10 µ F	E CAP.	QETN1HM-106Z	00505
	ũ	50V	10 µ F	E CAP.	GETN1HM-106Z	0507-08
	Z	160	1 µ F	C CAP.	NCF21CZ-105AY	0531
				CHIP CAP.	NCTO3CH-100AY	00532
	H	1600V		E CAD	QETN1HM-106Z	20536
	M	50V	10 μ F	E CAP.	NCF21CZ~105AY	05551
	Z	16V	1 µ F	C CAP.		
	H	1600V		CHIP CAP.	NCTO3CH-100AY	0553
	M	50V	10 µ F	E CAP.	QETNIHM-106Z	0555
	M M	16V 50V	47 μ F 10 μ F	E CAP. E CAP.	QETN1CM-476Z QETN1HM-106Z	0556 0557
	M	50V	10 µ F	E CAP.	GETN1HM-106Z	0601-02 0603-04
	M K	16V 50V	47 μ F 2200 p F	E CAP. CHIP CAP.	QETN1CM-476Z NGB21HK-222AY	0701-05
						COIL
			4.7μH	INDUCTOR	CE40344-4R7YL	.0101-04
			10 µ H	INDUCTOR	CE40344-100YL	0701-05
			ινμπ	BEADS CORE	CE41433-001Z	.0706
						DIODE
				ZENER DIODE	MA3062(M)-X	0103
				ZENER DIODE	MA3062 (M) -X	0201
				SI. DIODE	MA141WK-X	00451
				ZENER DIODE	MA3062 (M) -X	0452
				SI. DIODE	MA141WK-X	0453
				ZENER DIODE	MA3062 (M) -X	0454
				ZENER DIODE	MA3150 (M) -X	0501-02
				ZENER DIODE	MA3062-X	0503
				ZENER DIODE	MA3150 (M) -X	0532
				ZENER DIODE	MA3150 (M) -X	00552
					STOR	TRANSI
				DIGI. TRANSISTOR	DTC144EK-X	0302
				DIGI. TRANSISTOR	DTC323TK-X	0451-52
				DIGI. TRANSISTOR	DTC144EK-X	0453
						10433
				SI. TRANSISTOR	2SA1162 (YG) -X	
				DIGI. TRANSISTOR	DTC323TK-X	0502-03
				St. TRANSISTOR	2SA1162 (YG) -X	0531
				DIGI. TRANSISTOR SI. TRANSISTOR	DTC323TK-X 2SA1162 (YG) -X	0532 0551
				JI. INDIGIOUN	201110E (14) A	-30.
				DIG!. TRANSISTOR	DTC323TK-X	0553

65

Local	Description	Part Name	Part No.	△ Symbol No.
				10
		1. C (DIGI-MOS)	SAA7367T-X	IC0101
		1. C (M)	TMS57052BFT	IC0102
		I. C (D-RAM)	LC32464M-80X	IC0103
		I. C (MONO-ANA)	PCM1717E-X	IC0104-05
		1. C (MONO-ANA)	BA4558F-X	100111
		I. C (MONO-ANA)	UPC324G2-X	100201-02
		I. C (DIGI-MOS)	TC4052BF-X	IC0301
		I. C (DIGI-OTHER)	TDA7315D	IC0401
		I. C (DIGI-OTHER)	TDA7315D	100431
		1. C (MONO-ANA)	BA4558F-X	100451-52
		I. C (HONO-ANA)	BA4558F-X	100501
		I. C (MONO-ANA)	BA4558F-X	100551
				OTHERS
*		EM! FILTER	CE42482-103Y	EF0101-05
		PIN JACK	CEMN036-004	J0001
		PIN JACK	CEMN061-001	J0002
		BEADS CORE	CE42681-001Y	K0101-02
		BEADS CORE	CE42681-001Y	K0104-07
*		BEADS CORE	CE41433-001Z	K0108
		CRYSTAL	NAX0001-001X	X0101

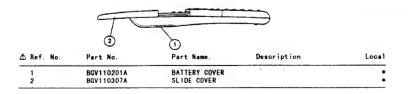
AV TERMINAL	_ PW	BOARD	ASS'Y	(SMB0J001B-U2	()
-------------	------	-------	-------	---------------	----

🐧 Symbol No.	Part No.	Part Name	Description	on	Local
CAPACI C0102-04 C0301	T O R QEKC1CM-106GMZ QEKC1CM-476MZ	E CAP. E CAP.	10 μ F 47 μ F	16V M	*
COIL		· · · · · · · · · · · · · · · · · · ·			
L0101-04	CELPO17-5R6Y	PEAKING COIL	5.6 µ H		*
L0105	CE41832-001	LEAD CORE			*
L0201-04	CELPO17-5R6Y	PEAKING COIL	5.6 μ H		*
L0205	CE41832-001	LEAD CORE			*
L0301-02	CELP017-5R6Y	PEAKING COIL	5.6 µ H		*
L0303	CE41832-001	LEAD CORE			*
OTHERS					
J0001-03	CE40529-006	SCART CONNECTOR			

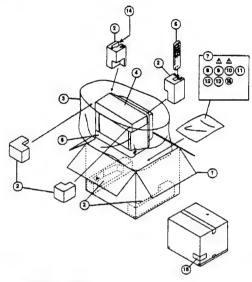
AUTO ASPECT MODULE PW BOARD ASS'Y (SJF0W001A(U))

△ Symbol No.	Part No.	Part Name	Description	Local
OTHERS				
	SJFOWOO1A(U)	AUTO ASPECT MODULE		

REMOTE CONTROL UNIT PARTS LIST (RM-C793-1E) [28"232"]



PACKING



PACKING PARTS LIST

Loca	D		4	
	Description	Part Name	Part No.	⚠ Ref. No.
		PACKING CASE	AEM1002-A44-E	1
		PACKING CUSHION	CP11547-00B-E	2
,		SET COVER	AEM1004-A06-E	3
		CUSHION SHEET	CP40193-009-E	4
		CUSHION SHEET	CP40193-010-E	5
		REMOCON UNIT	RM-C793-1E	6
1		POLY BAG	AEM3021-001-E	7
		ADDRESS CARD	BT-20066A-E	8
		INST. BOOK	CQ40353-001-E	∆ 9
1		INST. BOOK	CQ40352-001-E	△ 10
1		WARRANTY CARD	BT-54008-1E	11
1		DEC. SHEET	CM22966-008-E	12
1		WARNING SHEET	LCT0065-001A-U	13
		RF CABLE	AEEAK001-200	14
		EURO LABEL	AEM1038-058-E	15
	AV-28WZ2EN (A) ONLY	S. DIAGRAM	2832WZ2ENA-HSAE	16
32WZ2EP(A	AVSZWZZENIAVAVSZ			
	Physical Action Control of the Section Control	PACKING CASE	AEM1002-A43-E	1
		PACKING CUSHION	CP11549-00B-E	2
		SET COVER	AF#1004-A07-E	3
:		CUSHION SHEET	AEM3022-003-E	4
1		CUSHION SHEET	CP40193-010-E	5
		REMOCON UNIT	RM-C793-1E	6
1		POLY BAG	AEM3021-001-E	ž
:		ADDRESS CARD	BT-20066A-E	8
		INST. BOOK	CQ40353-001-E	△ 9
		INST. BOOK	CQ40352-001-E	₾ 10
		WARRANTY CARD	BT-54008-1E	11
		DEC. SHEET	CM22966-014-E	12
		WARNING SHEET	LCT0065-001A-U	13
		RF CABLE	AEEAK001-200	14
,		EURO LABEL	AEM1038-060-E	15
	AV-32WZ2EN(A) ONLY	S. DIAGRAM	2832WZ2ENA~HSAE	16

AV-32WZ2EP AV-28WZ2EN

AV-32WZ2EN AV-28WZ2EP

AV-32WZ2EN(A)/AV-32WZ2EP(A) AV-28WZ2EN(A)/AV-28WZ2EP(A) STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS 1. SAFETY

The components identified by the A symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal

PAL Colour bar signal

(2)Setting positions of each knob/button and

variable resistor :Original setting position

when shipped

(3)Internal resistance of tester (4)Oscilloscope sweeping time DC 20k Q /V ⇒ 20uS/div

⇒ 5mS/div

·Others ⇒ Sweeping time is specified

(5)Voltage values

:All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

oin the PW board :R1209-R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

■Resistance value

No unit :[Ω]: Κ :[ΚΩ]

М :[MΩ]

 Rated allowable power No indication :1/6IW1

Others :As specified

Type

No indication :Carbon resistor

OME Oxide metal film resistor MER :Metal film resistor MPR :Metal plate resistor

UNER Uninflammble resistor FR :Fusible resistor

*Composition resistor 1/2 fWI is specified as 1/2S or Comp. (2)Capacitors

■Capacitance value

1 or higher :[pF] :[uF] less than 1

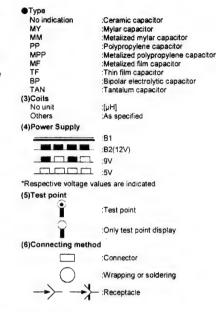
Withstand voltage

No indication :DC50[V]

Others DC withstand voltage [M]

*Electrolytic Capacitors

47/50[Example]:Capacitance value [µF]/withstand voltage[V]



(7)Ground symbol

- :LIVE side ground
- \perp :ISOLATED(NEUTRAL) side ground
- :EARTH ground
- :DIGITAL ground

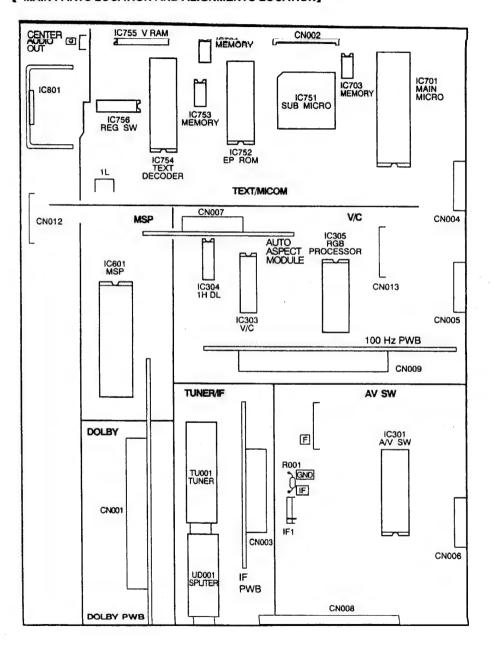
5.NOTE FOR REPAIRING SERVICE

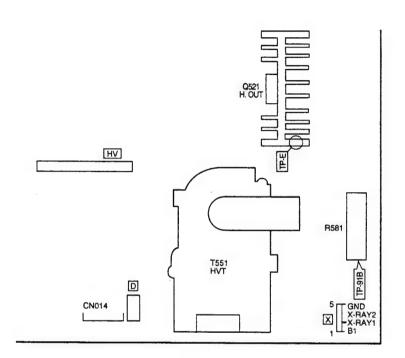
This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE: (1) side GND and the ISOLATED(NEUTRAL): (1) side GND. Therefore, care must be taken for the following points.

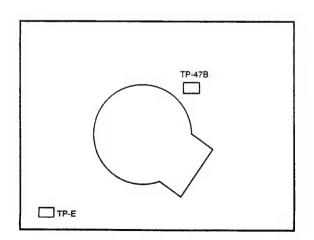
- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.
- Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

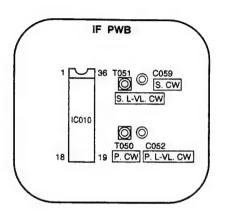
AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EP

[MAIN PARTS LOCATION AND ALIGNMENTS LOCATION]

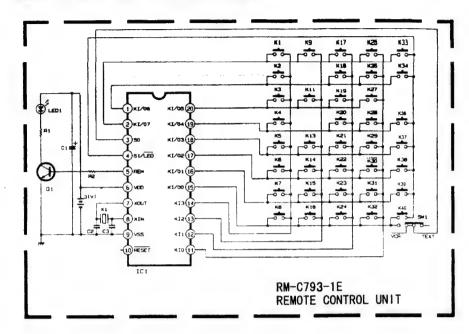








[REMOTE CONTROL UNIT CIRCUIT DIAGRAM]

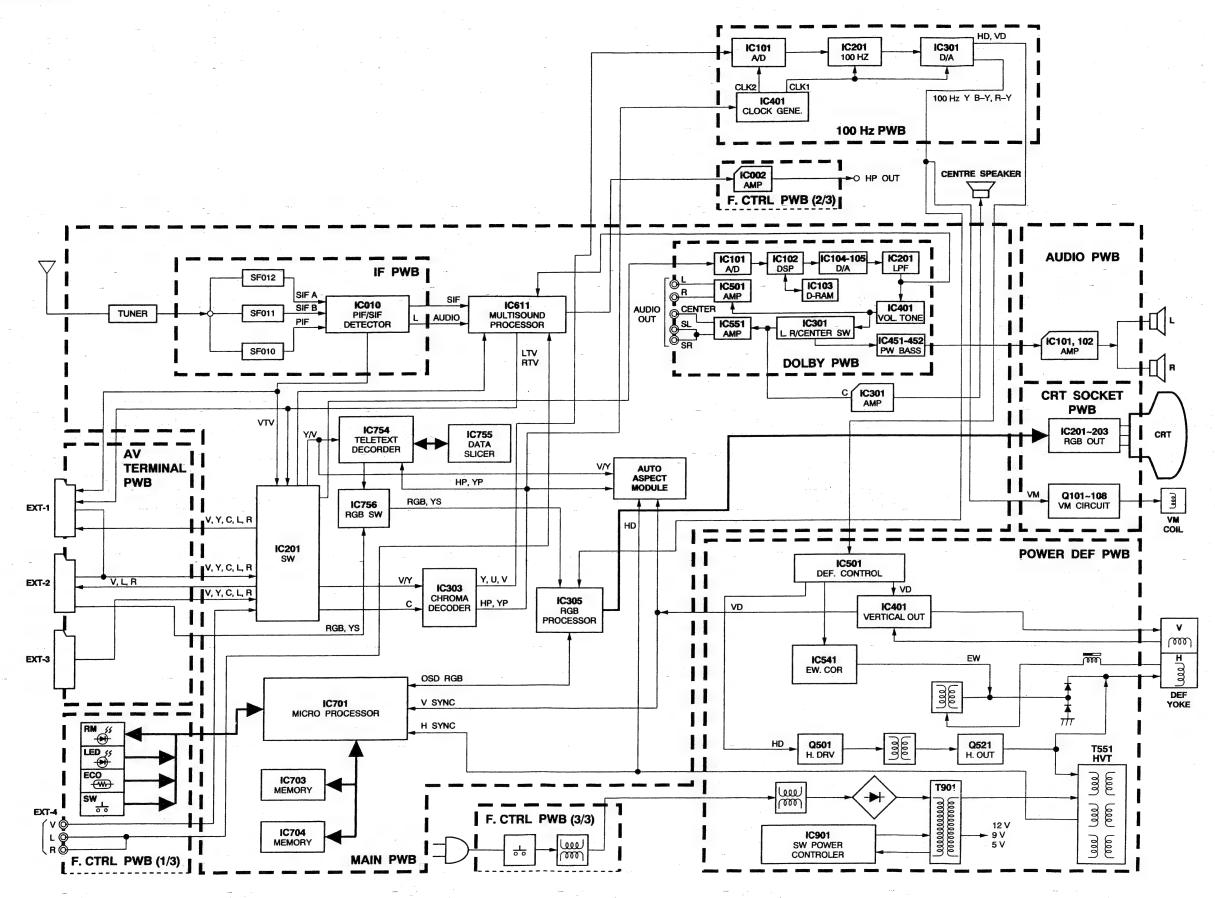


■KEY FUNCTION

No.	Key Name	No.	Key Name	No.	Key Name	No.	Key Name
1	1	14	3D	-	MODE (TEXT) 29	CANCEL (TEXT)
2	2	15	PBASS	22	REW (VCR)		STOP (VCR)
3	3	16	PIP	22	SIZE (TEXT	30	INDEX (TEXT)
4	4	17	0	23	FF (VCR)	30	(VCR)
5	5	40	REVEAL (TEXT)	24	SUB PAGE(TEXT)	31	A
6	6	18	PLAY (VCR)	1 24	P V (VCR)	32	4
7	7	19	TV	25	*	33	•
8	8	20	MENU/OK	26	STORE (TEXT)	34	>
9	9	24	HOLD (TEXT)	20	(VCR)	36	FREEZE
11	0	21	P ∧ (VCR)	27	1.77	37	MULTI
13	ZOOM			28		38	SWAP
	1		1			39	SUB-P V
						40	SUB-P A

AV-32WZ2EN AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EN AV-28WZ2EP AV-28WZ2EP

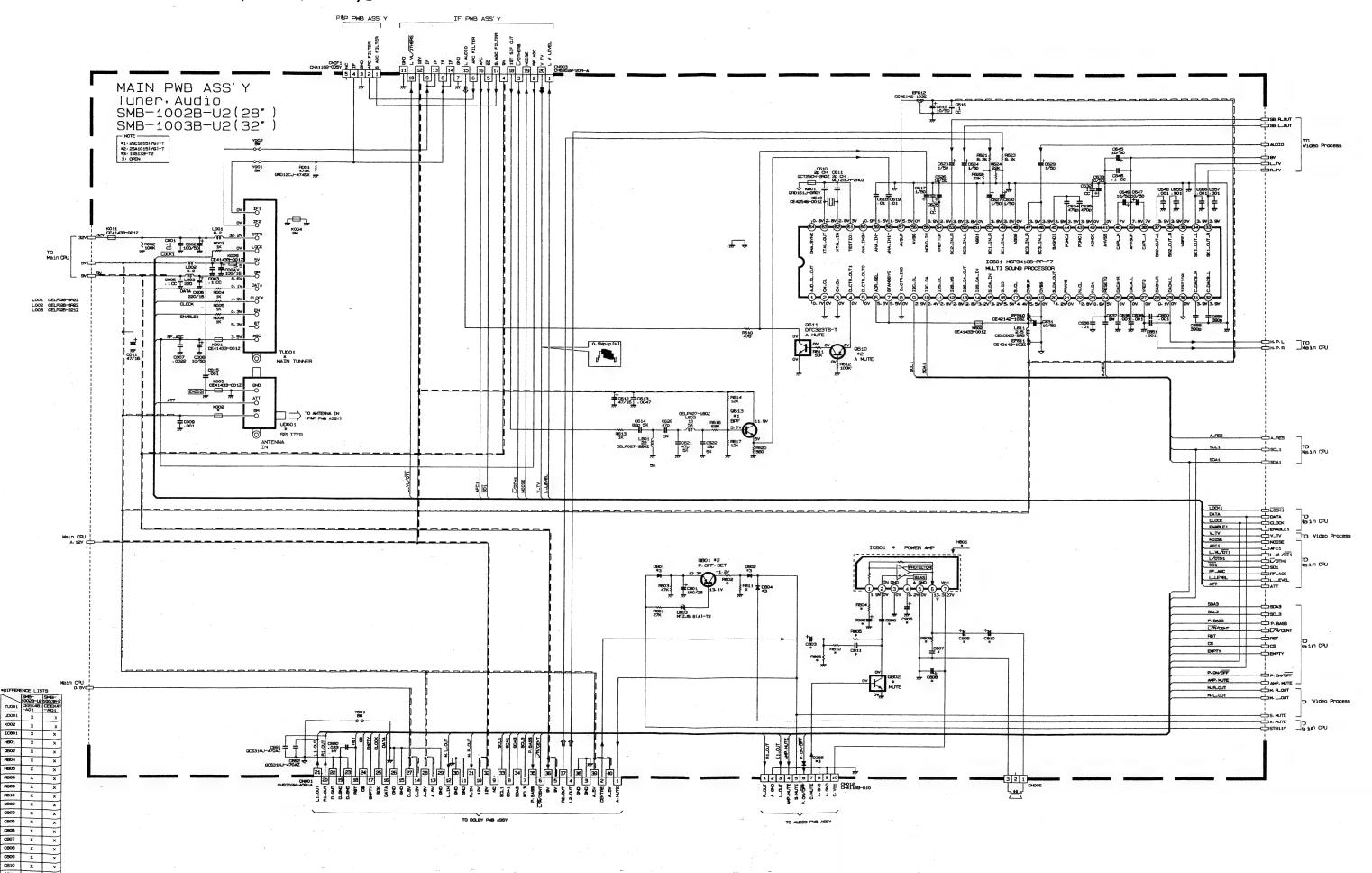
[BLOCK DIAGRAM]



2-8

AV-32WZ2EN AV-32WZ2EN AV-32WZ2EP AV-32WZ2EP AV-28WZ2EN AV-28WZ2EN AV-28WZ2EP AV-28WZ2EP

[MAIN PWB CIRCUIT DIAGRAM (TUNER, AUDIO)]



AV-32WZ2EN AV-32WZ2EN AV-32WZ2EP AV-32WZ2EP AV-28WZ2EN AV-28WZ2EN AV-28WZ2EP AV-28WZ2EP [MAIN PWB CIRCUIT DIAGRAM (Video Process)] OF 18181818181 MAIN PWB ASS'Y VIDEO PROCESS SMB-1002B-U2(28° SMB-1003B-U2(32") 5.5/6.0 05.5/6.0 PY J.J. O 1990

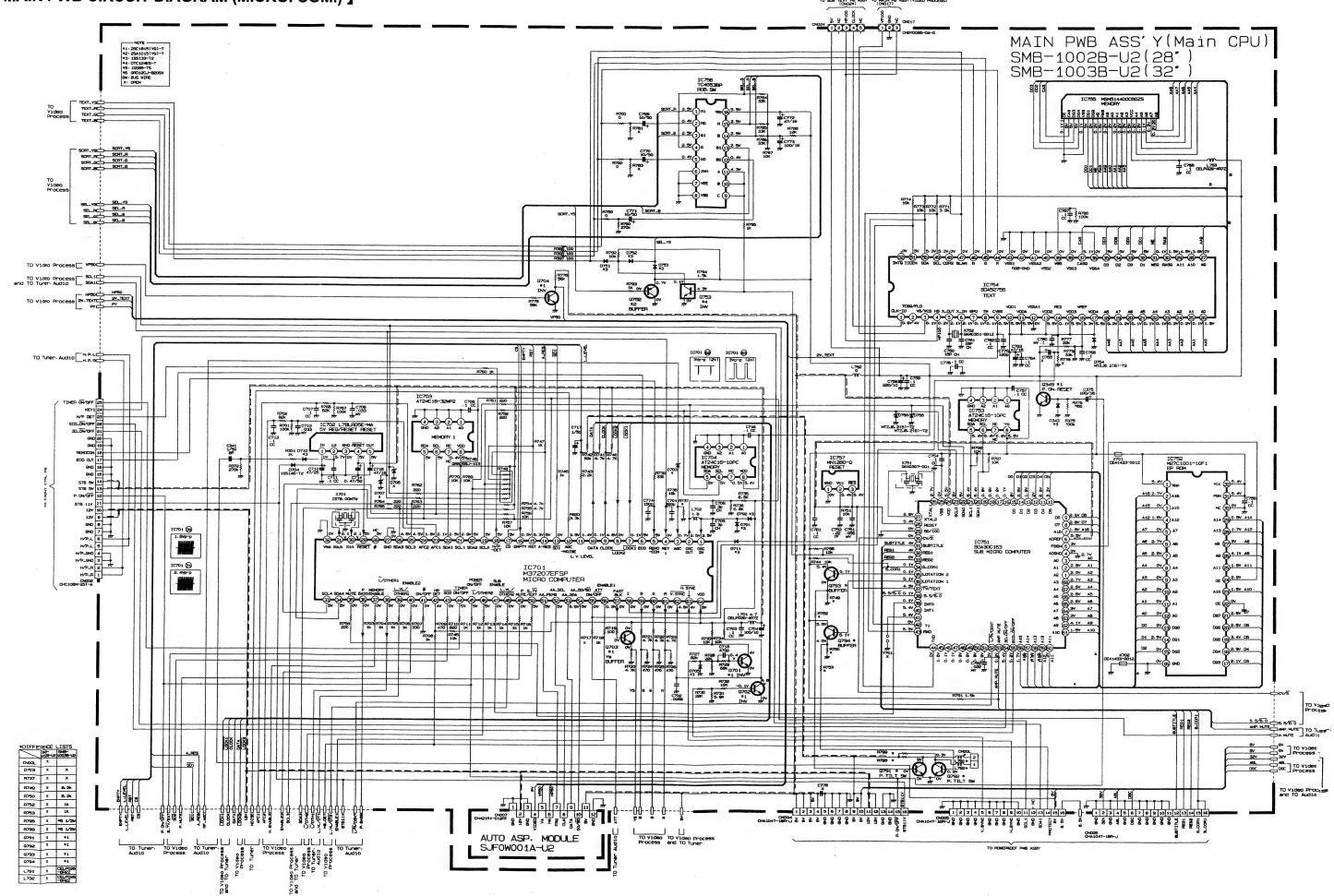
O 1990 0.9Mp-p 023 0230 04009 13 2. 840 pl 24 RE771 C224 30k 1/50 8 9 2 CNOOH 0 8 2 2 5 TO MAIN FE ASSY TO SUB TEXT PE (CNO25) 0.740-p(H) .1 OC X311 0E40749-001Z X312 0E40888-001Z IC303 TDA9141/N2 CHROMA_DECODER 0.000 [7] 0.000 [7] 2343 *1 YS MIX YS MIX OV RSS4 1C3003 (B) 1C303 (3 0.7Vp-p(H) 10303 (A) TEXT_R_OUT 230/16 C302 0.7Vp-p1i RECORD REGION CN020 (C343) 2 TEXT_G_GUT CN021 (C344) 1 TEXT_B_IN 2 TEXT_8_0UT 04022 (C349 AV TERMINAL PWB ASS' Y 1 · 2Vp−p(2H 11 2.3V 0303 42 1.3X 0V 047 1.3X 0V 077 2.3V R218 R216 33k C205 3.3/50 P383 220 M 0.7Vp-p1 R327 1.5K 77 R328 1.5K R219 R220 S2k 390 3.3 % C2002 3.3 % C2002 Reps 22x 77 -0 C2023 T5-T1 AUTE 0.6%p-p(2H) 0. 1V 0208 *2 A MUTE 1: SWD-D(SH) 1VID-ID [H] R366 R367 3.9k 3.9k 13.3/50 550 mm -фнедет -фож -фия. -фр. ноге R251 R253 C213 33k 33k 1/50 100 5 M 0305 100 0305 100 0305 0 V See V Cook

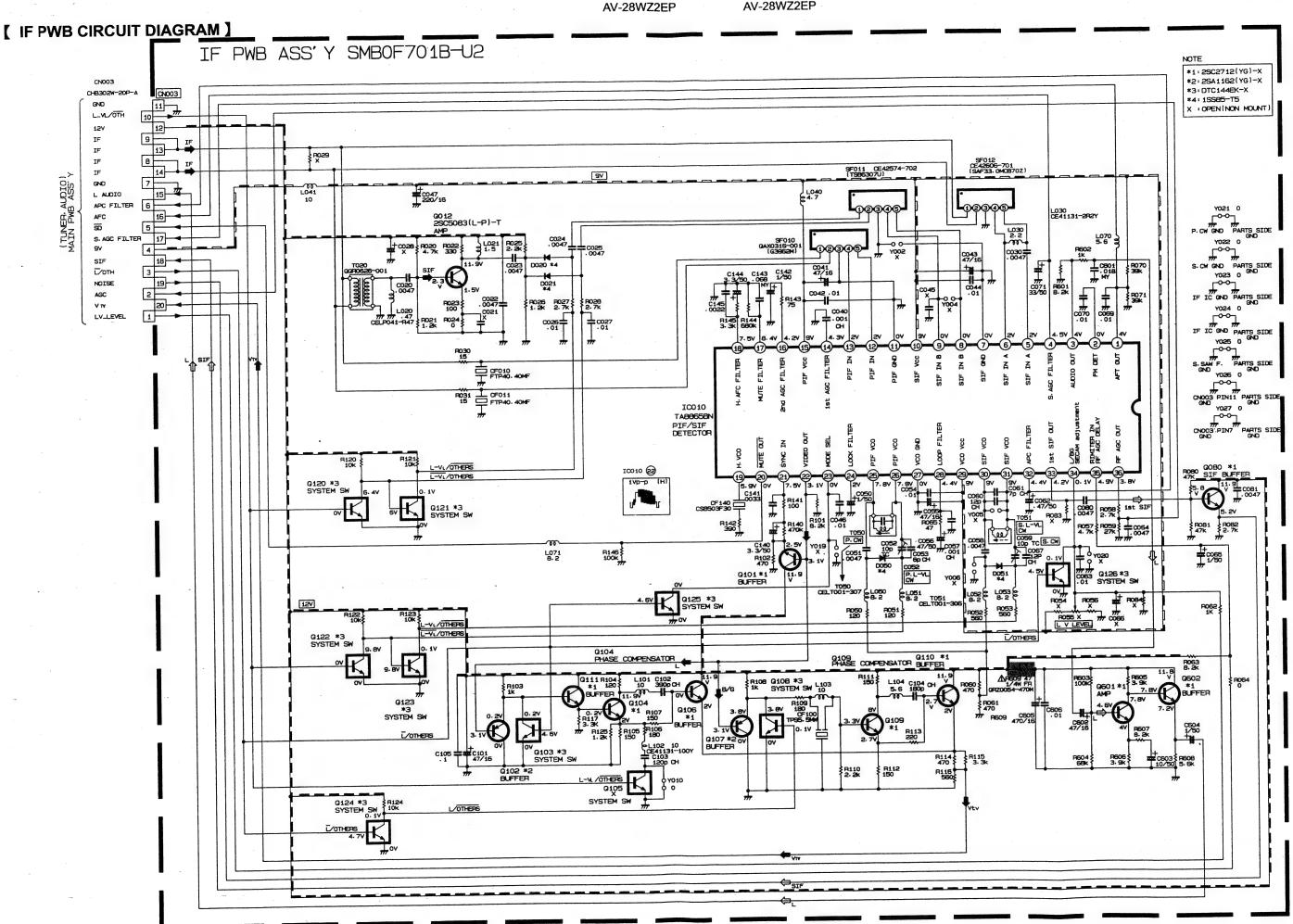
Reco 28 T O V Cook

Reco 28 T SHB- SHB-10028-U2 10038-U2 K014 CE41433 CE41433 -0012 -0012 No.51239C No.51239C 2-11 2-12

AV-32WZ2EN AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EP AV-28WZ2EP AV-28WZ2EP

[MAIN PWB CIRCUIT DIAGRAM (MICRO. COM.)]

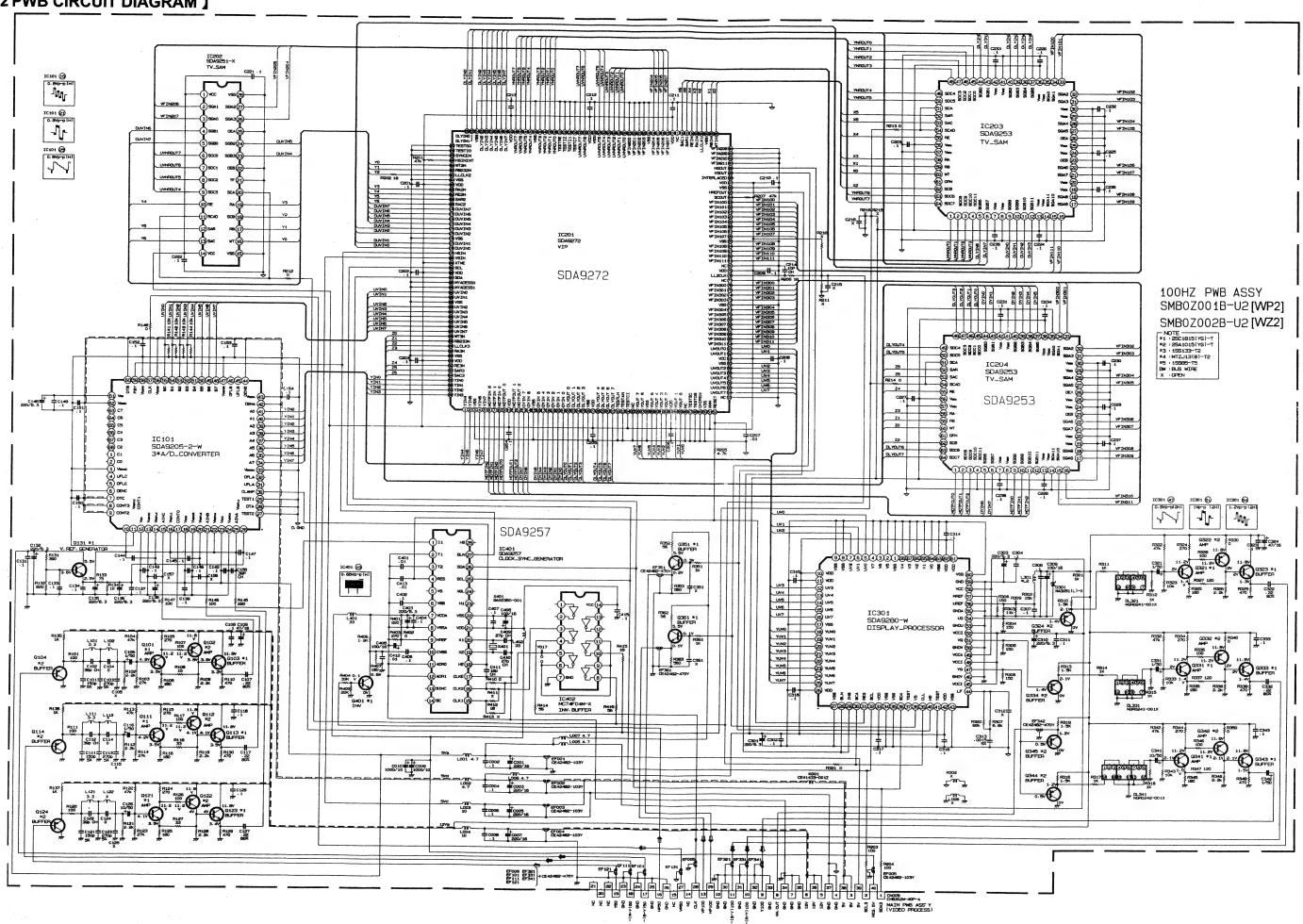




2-15

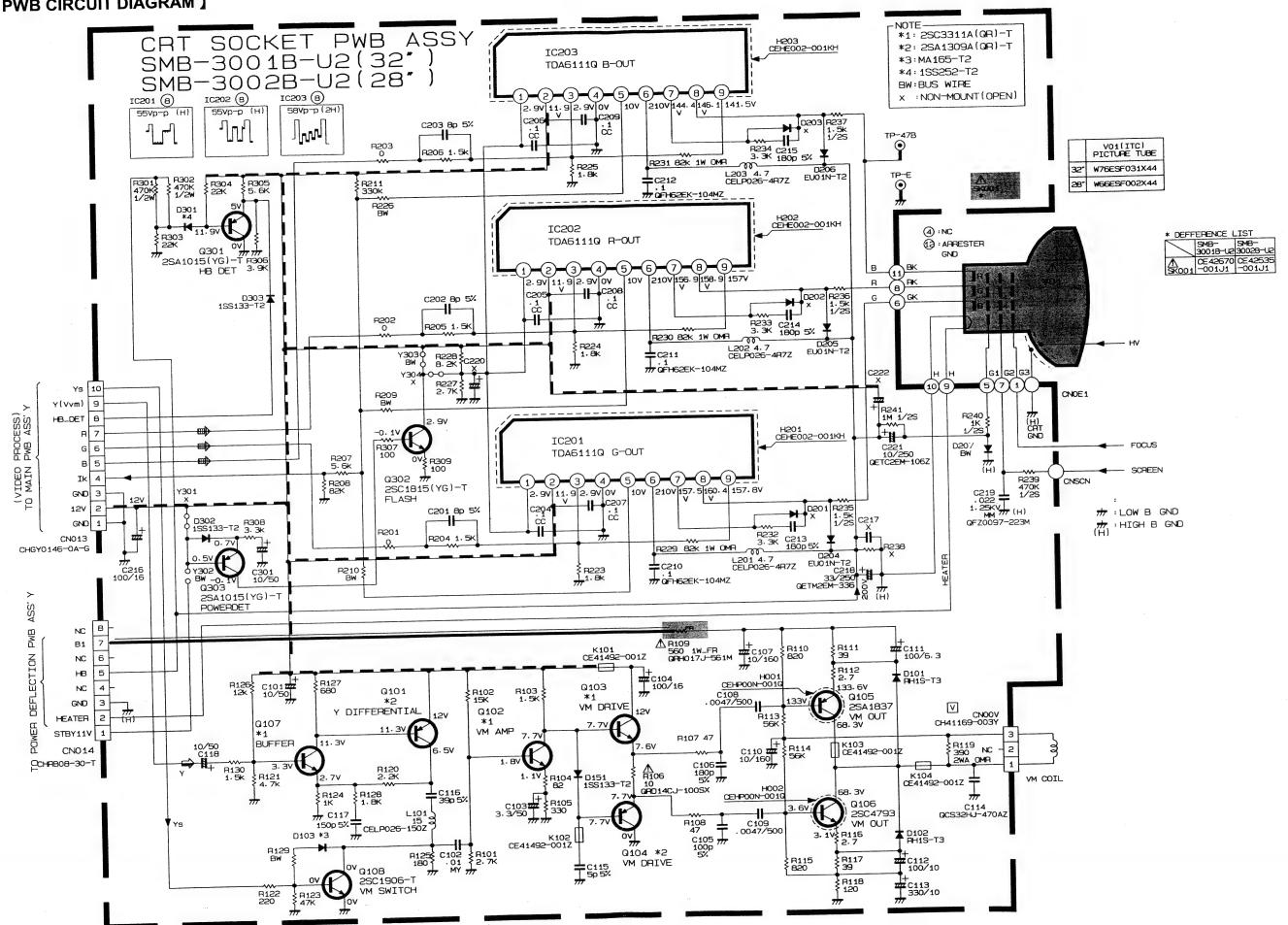
AV-32WZ2EN AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EN AV-28WZ2EP

[100Hz PWB CIRCUIT DIAGRAM]



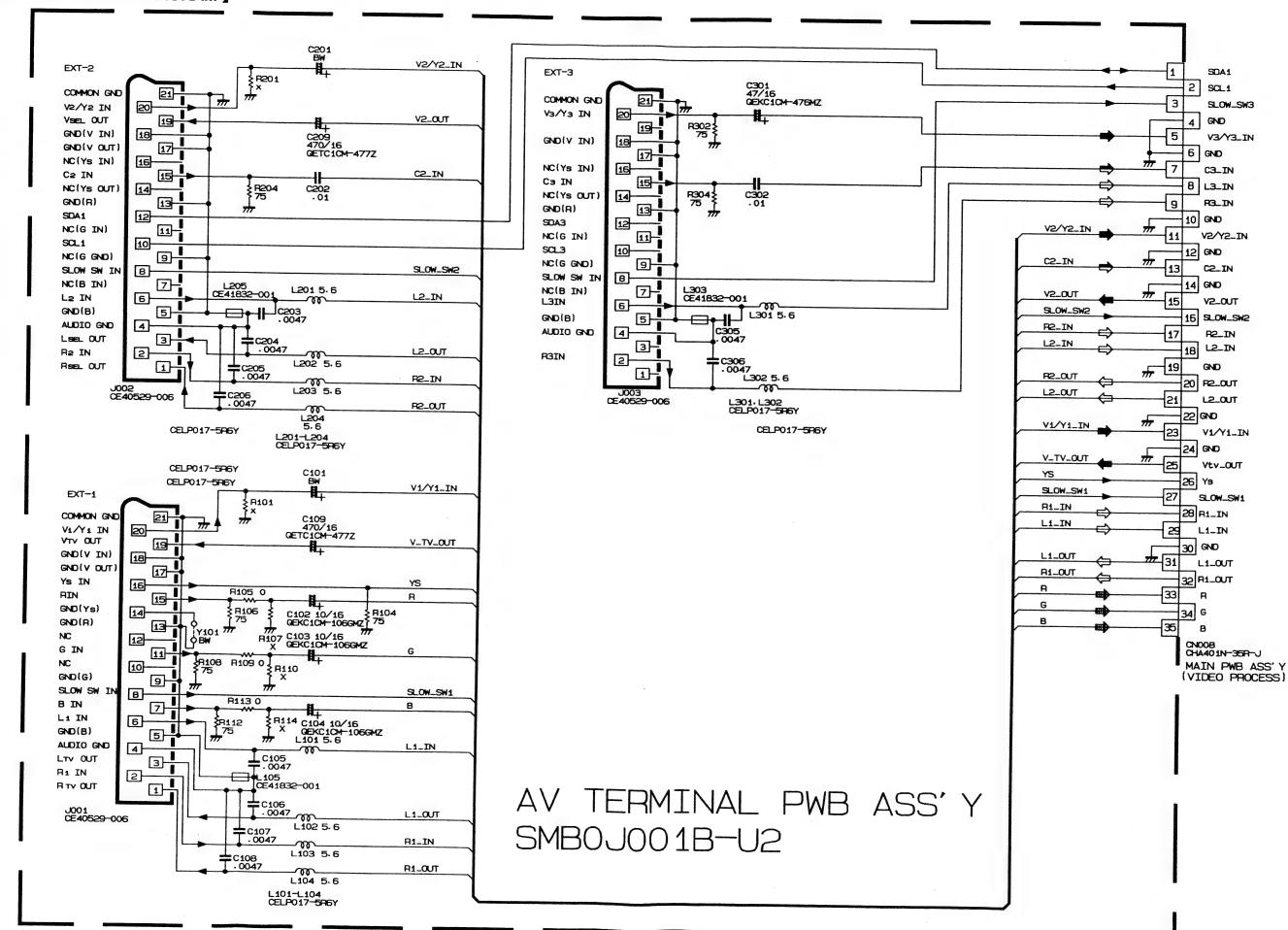
AV-32WZ2EN AV-32WZ2EN AV-32WZ2EP AV-32WZ2EP AV-28WZ2EN AV-28WZ2EN AV-28WZ2EP AV-28WZ2EP

[CRT SKT PWB CIRCUIT DIAGRAM]



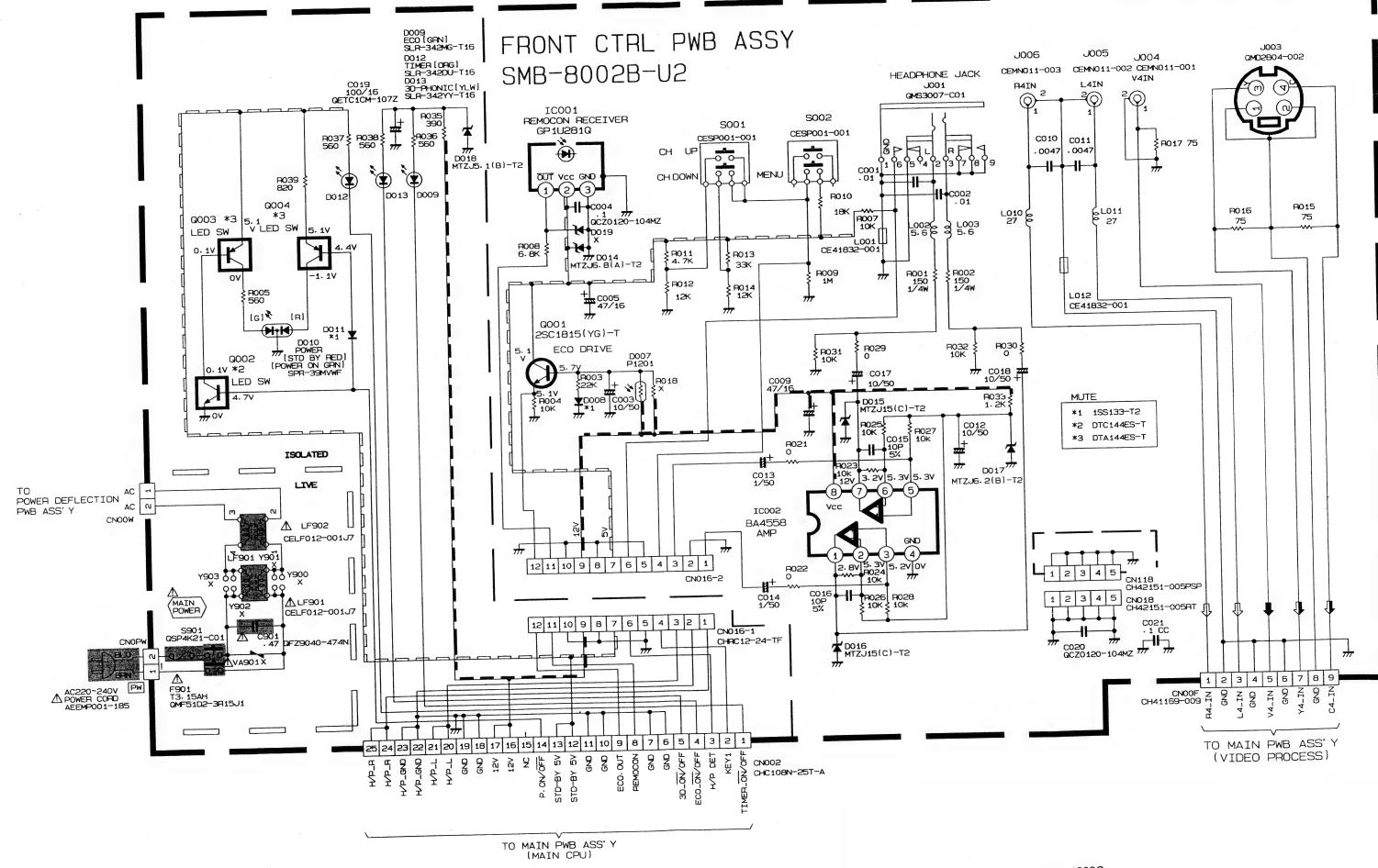
2-20

[AV TERMINAL PWB CIRCUIT DIAGRAM]



AV-32WZ2EN AV-32WZ2EN AV-32WZ2EP AV-32WZ2EP AV-28WZ2EN AV-28WZ2EN AV-28WZ2EP AV-28WZ2EP

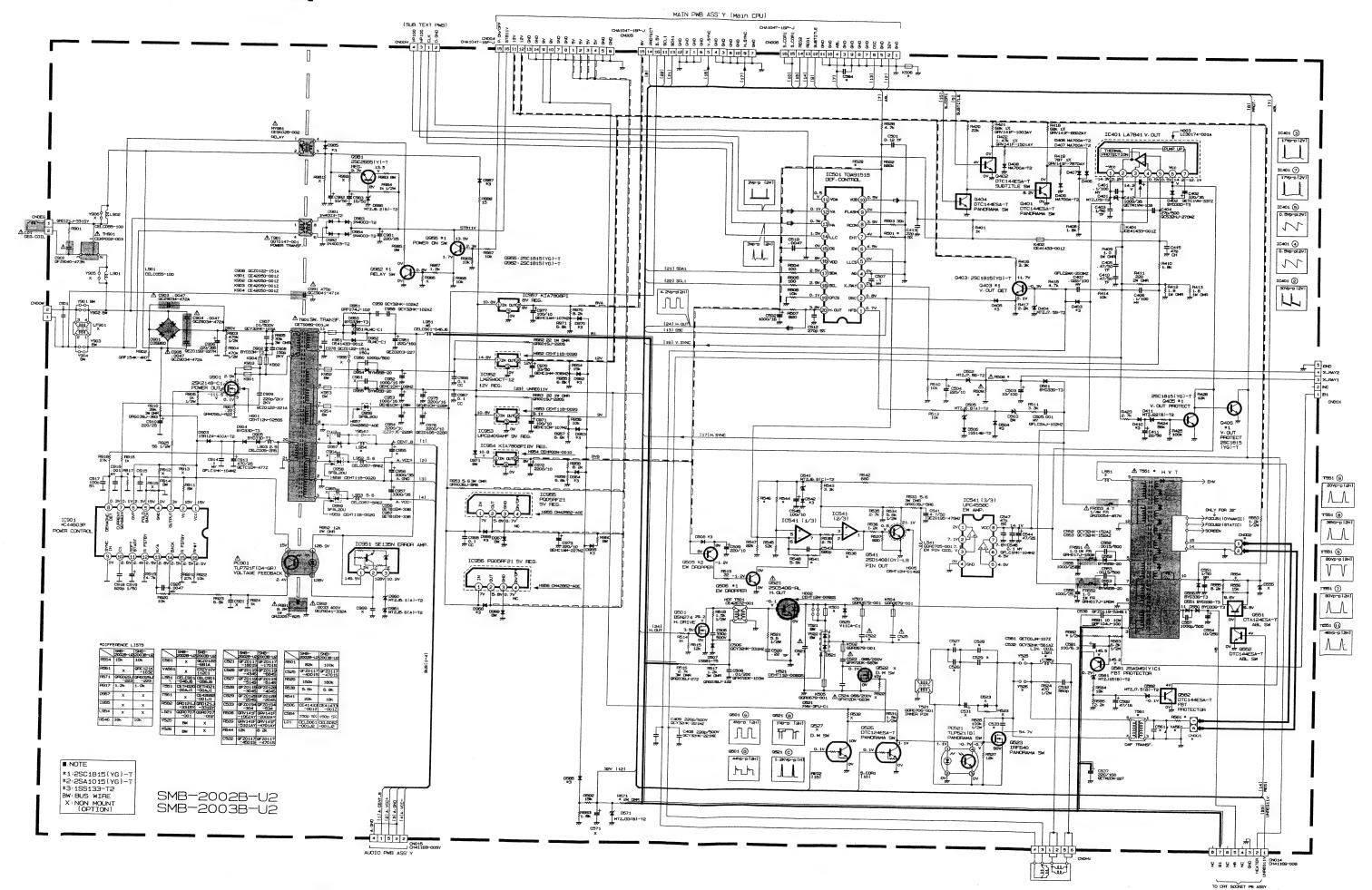
[FRONT CONTROL PWB CIRCUIT DIAGRAM]

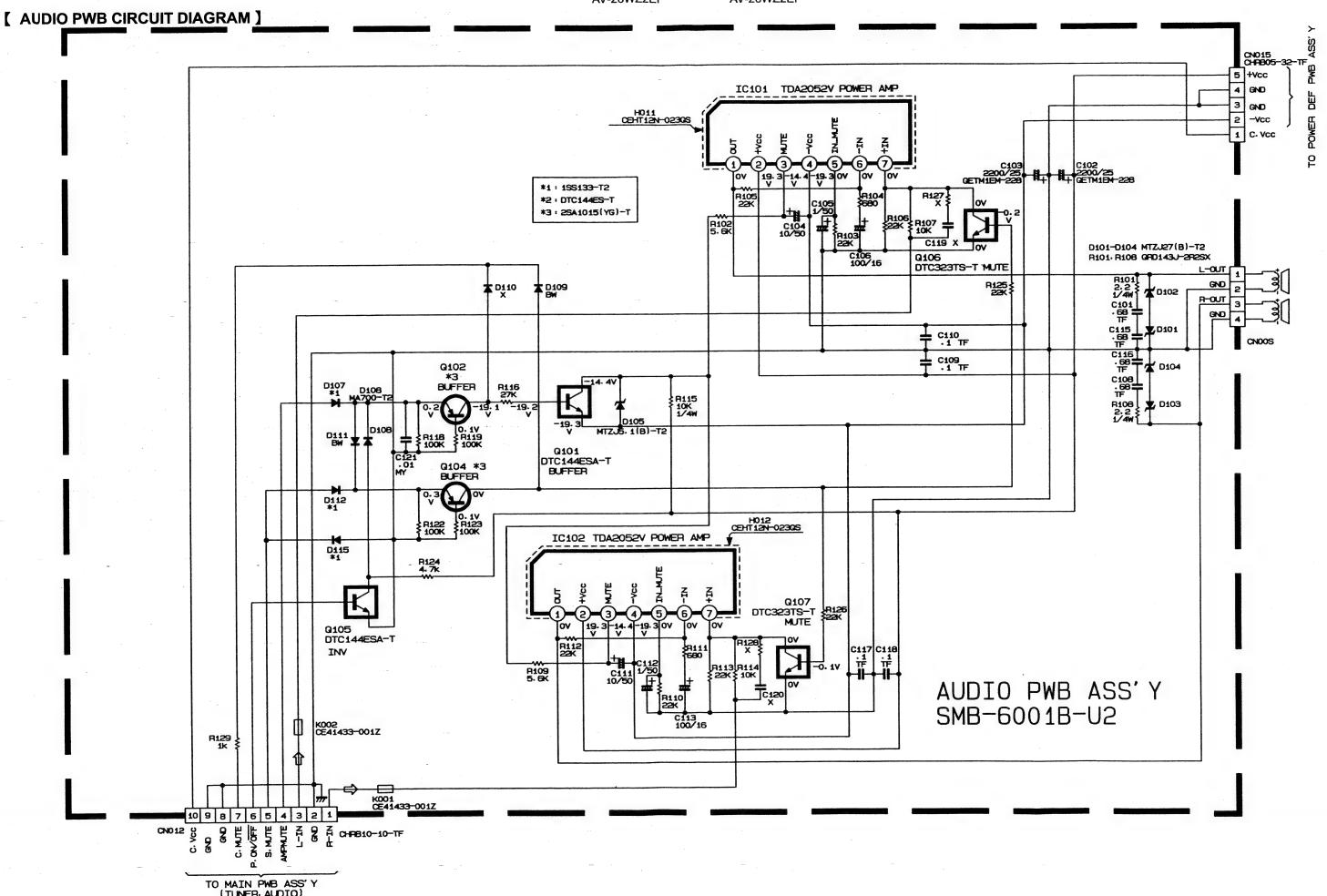


2-24

AV-32WZ2EN AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EP AV-28WZ2EP AV-28WZ2EP

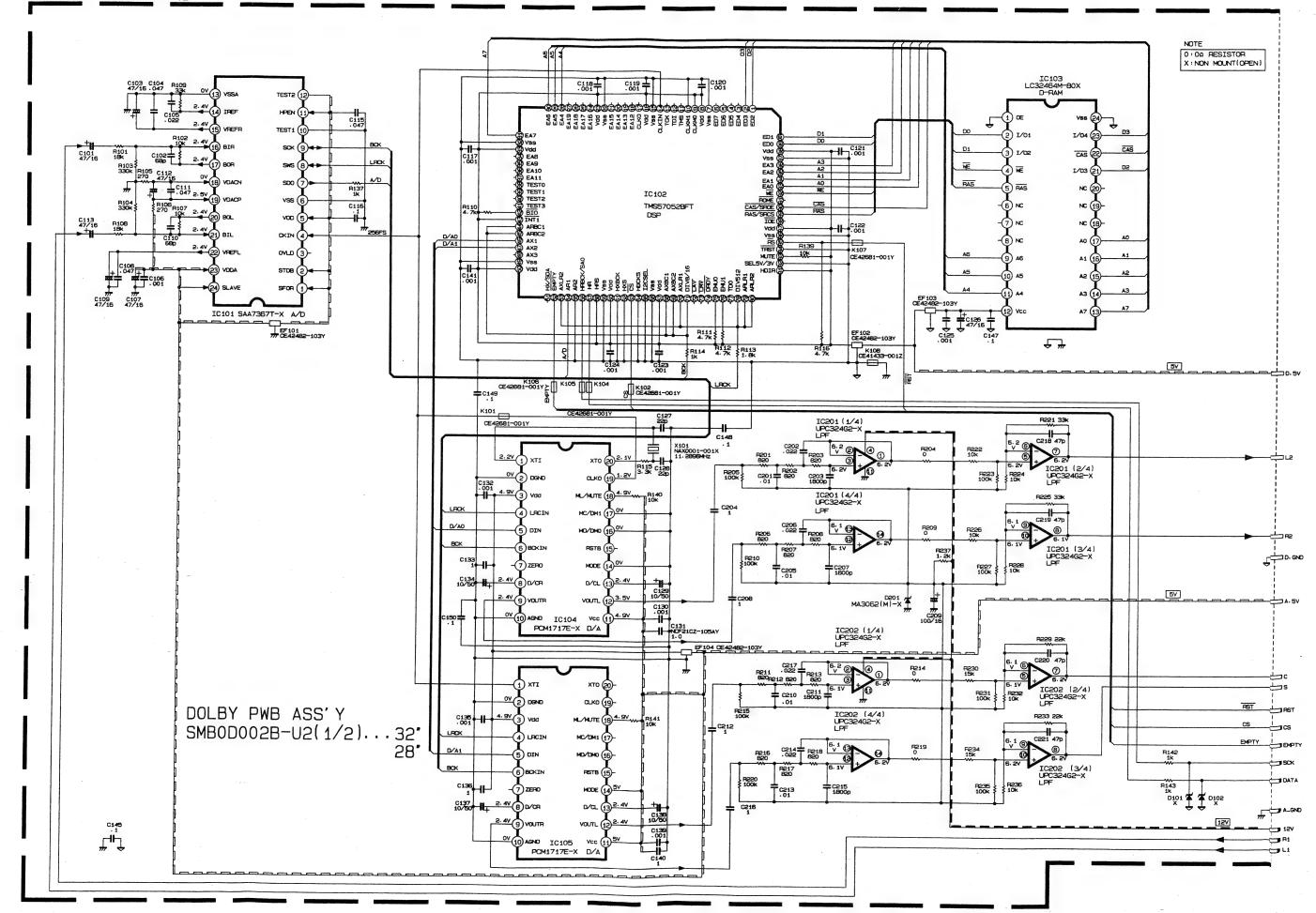
[POWER DEF PWB CIRCUIT DIAGRAM]

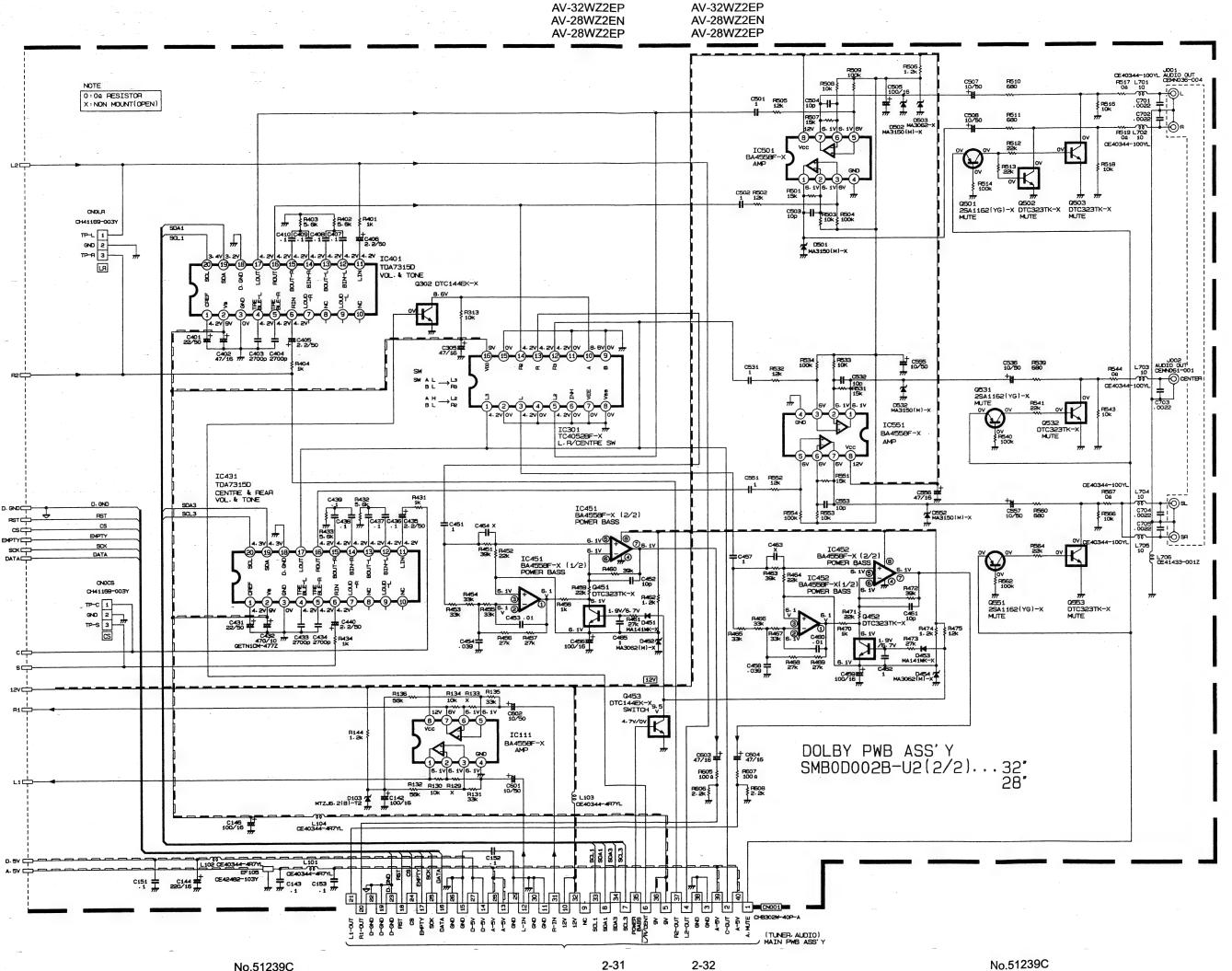




AV-32WZ2EN AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EP AV-28WZ2EP AV-28WZ2EP

[DOLBY PWB CIRCUIT DIAGRAM]

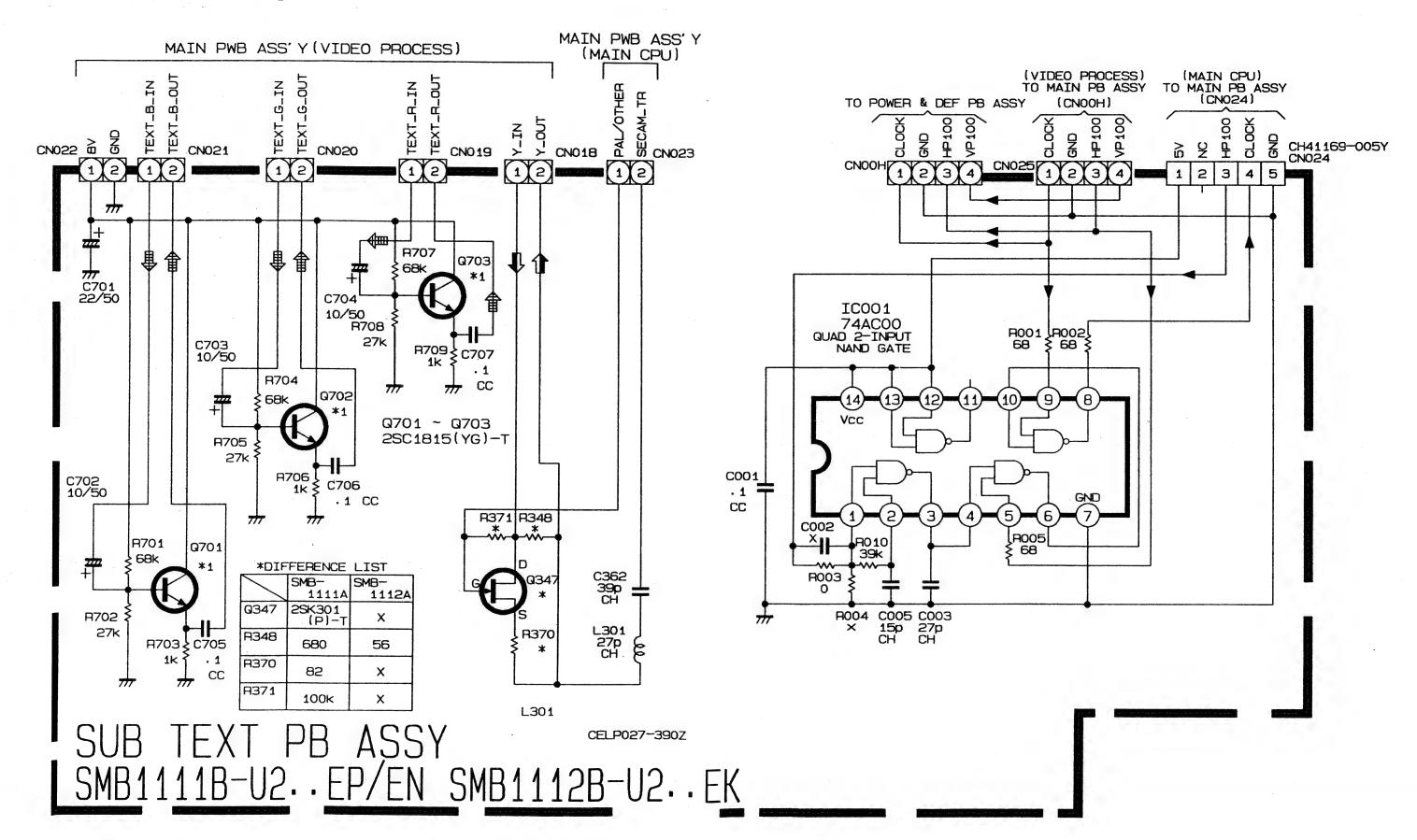




AV-32WZ2EN

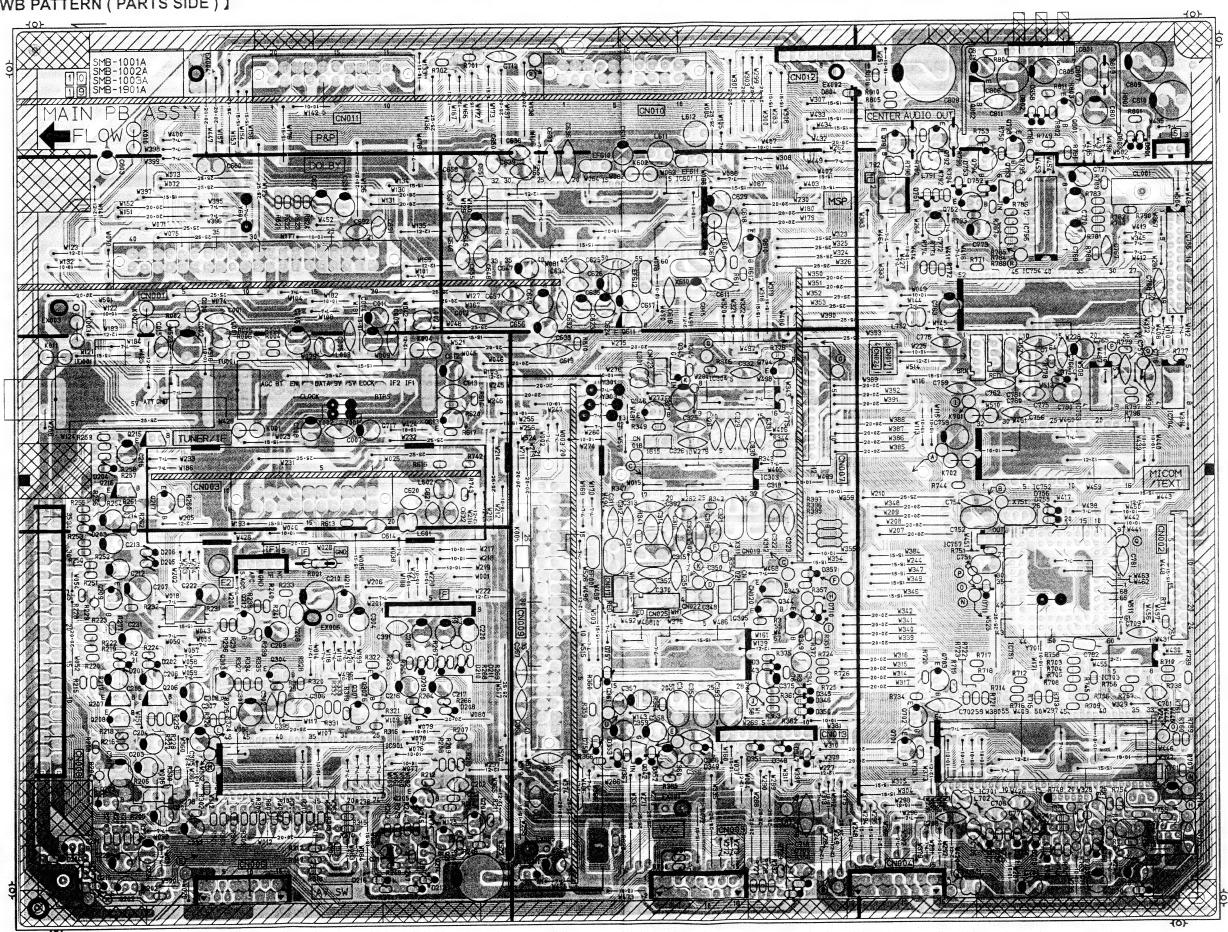
AV-32WZ2EN

[SUB TEXT PWB CIRCUIT DIAGRAM]



AV-32WZ2EN AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EN AV-28WZ2EP

[MAIN PWB PATTERN (PARTS SIDE)]



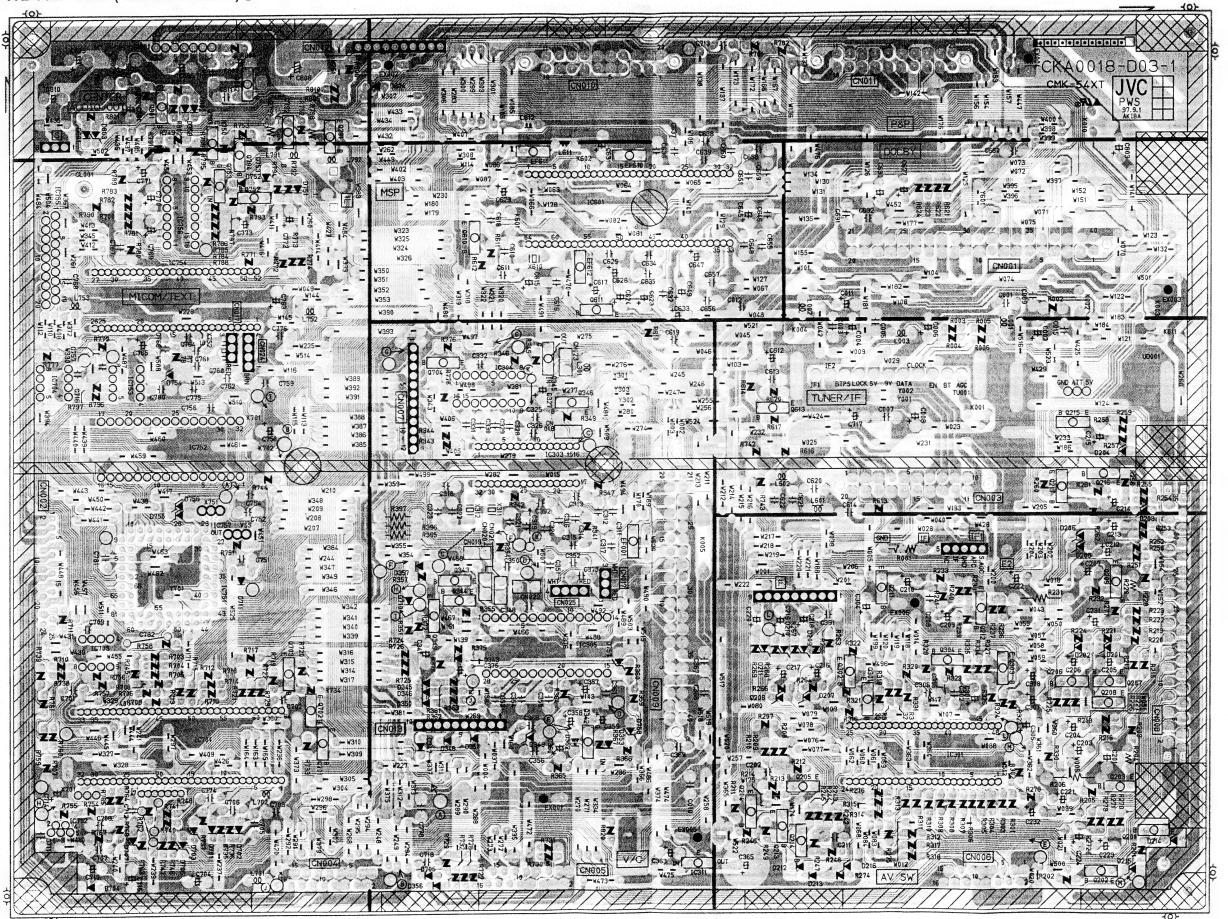
 AV-32WZ2EN
 AV-32WZ2EN

 AV-32WZ2EP
 AV-32WZ2EP

 AV-28WZ2EN
 AV-28WZ2EN

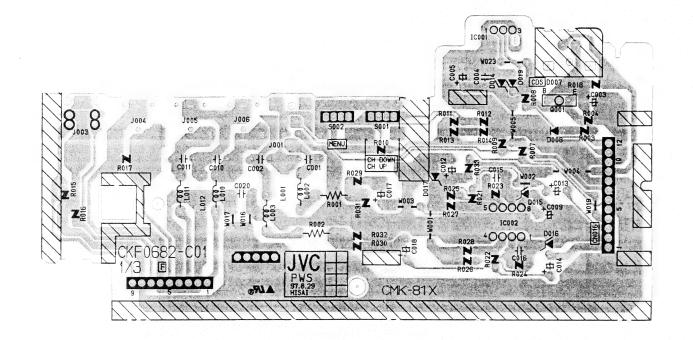
 AV-28WZ2EP
 AV-28WZ2EP

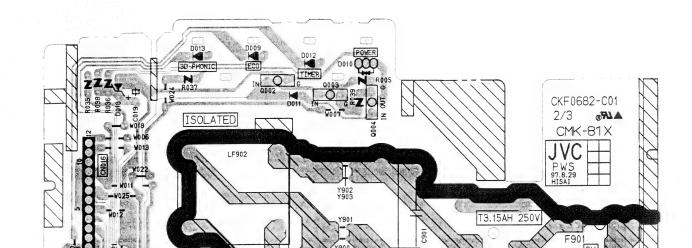
[MAIN PWB PATTERN (SOLDER SIDE)]



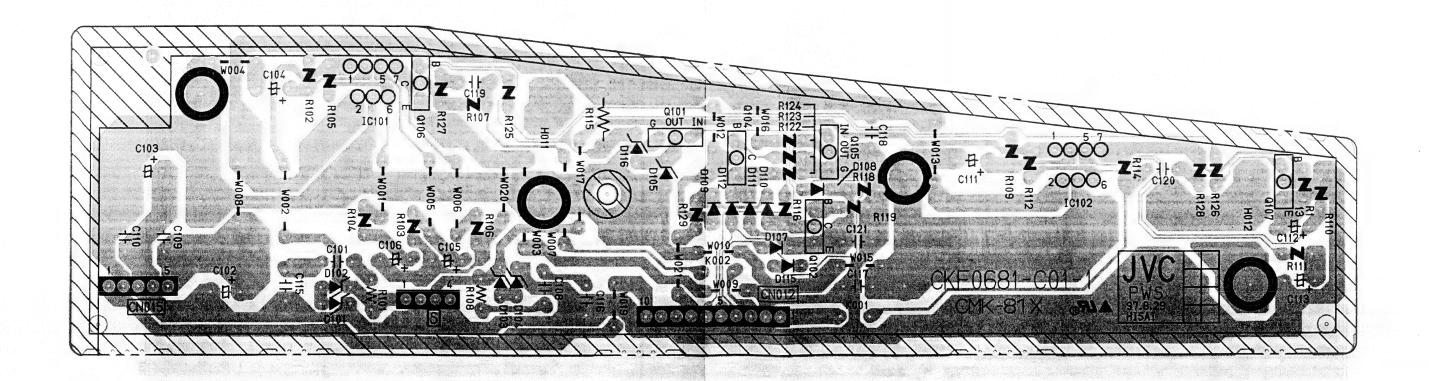
[FRONT CONTROL PWB PATTERN 2]

[FRONT CONTROL PWB PATTERN 1]

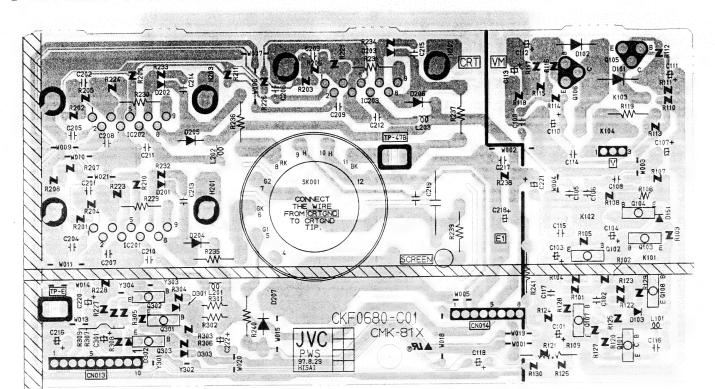




[AUDIO PWB PATTERN]

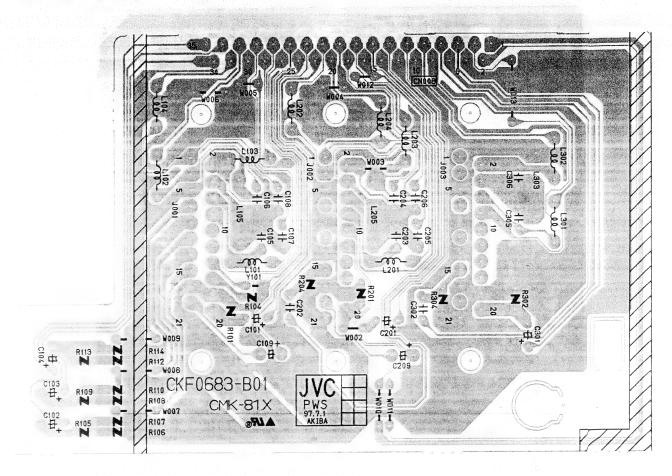


[CRT SOCKET PWB PATTERN]



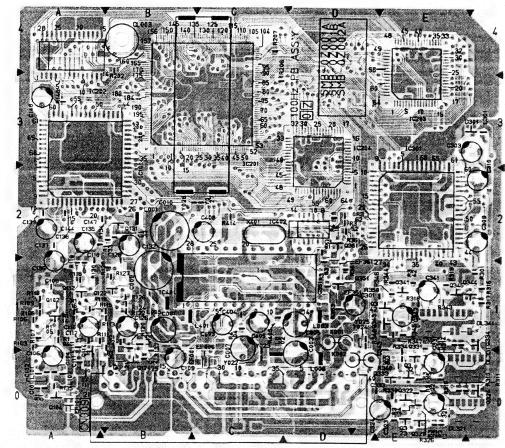
AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EP

[AV TER. PWB PATTERN]

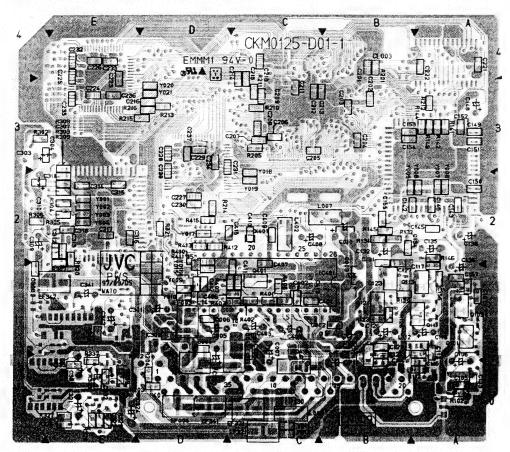


AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EP

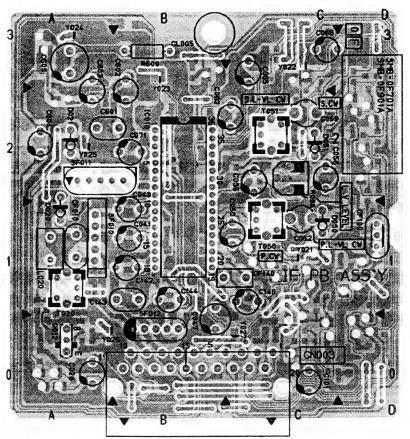
[100Hz PWB PATTERN (TOP VIEW)]



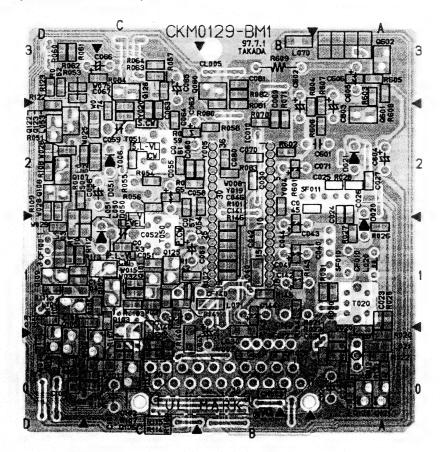
[100Hz PWB PATTERN (BOTTOM VIEW)]



[IF PWB PATTERN (TOP VIEW)]



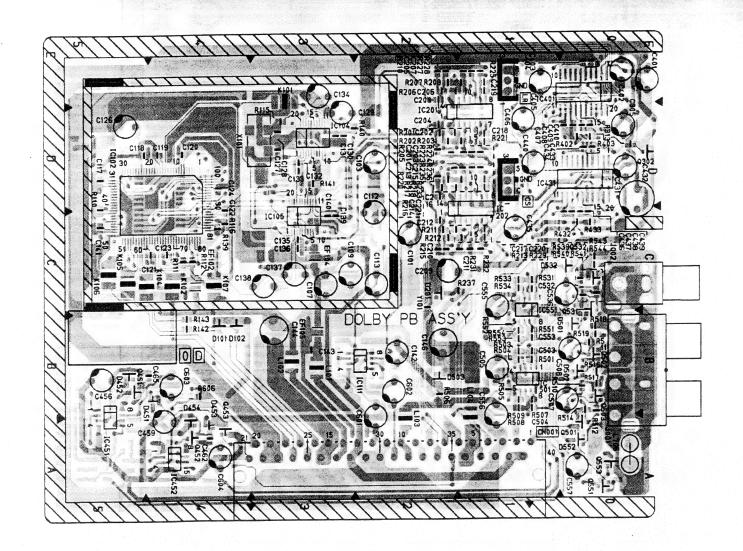
[IF PWB PATTERN (BOTTOM VIEW)]

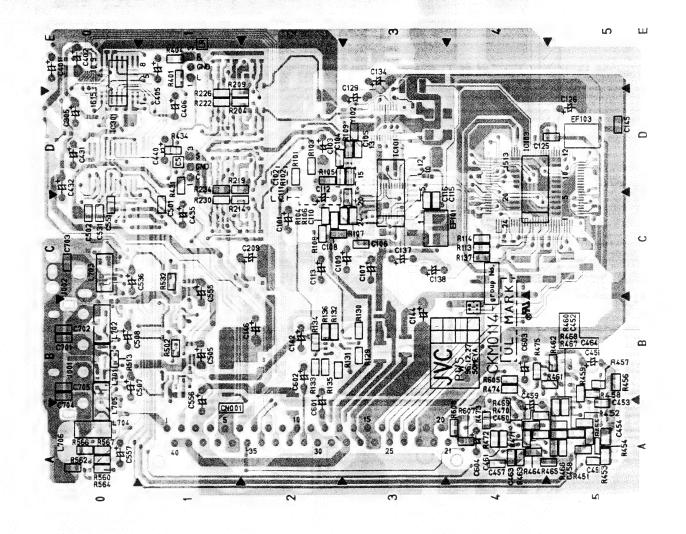


AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EP

[DOLBY PWB PATTERN (TOP VIEW)]

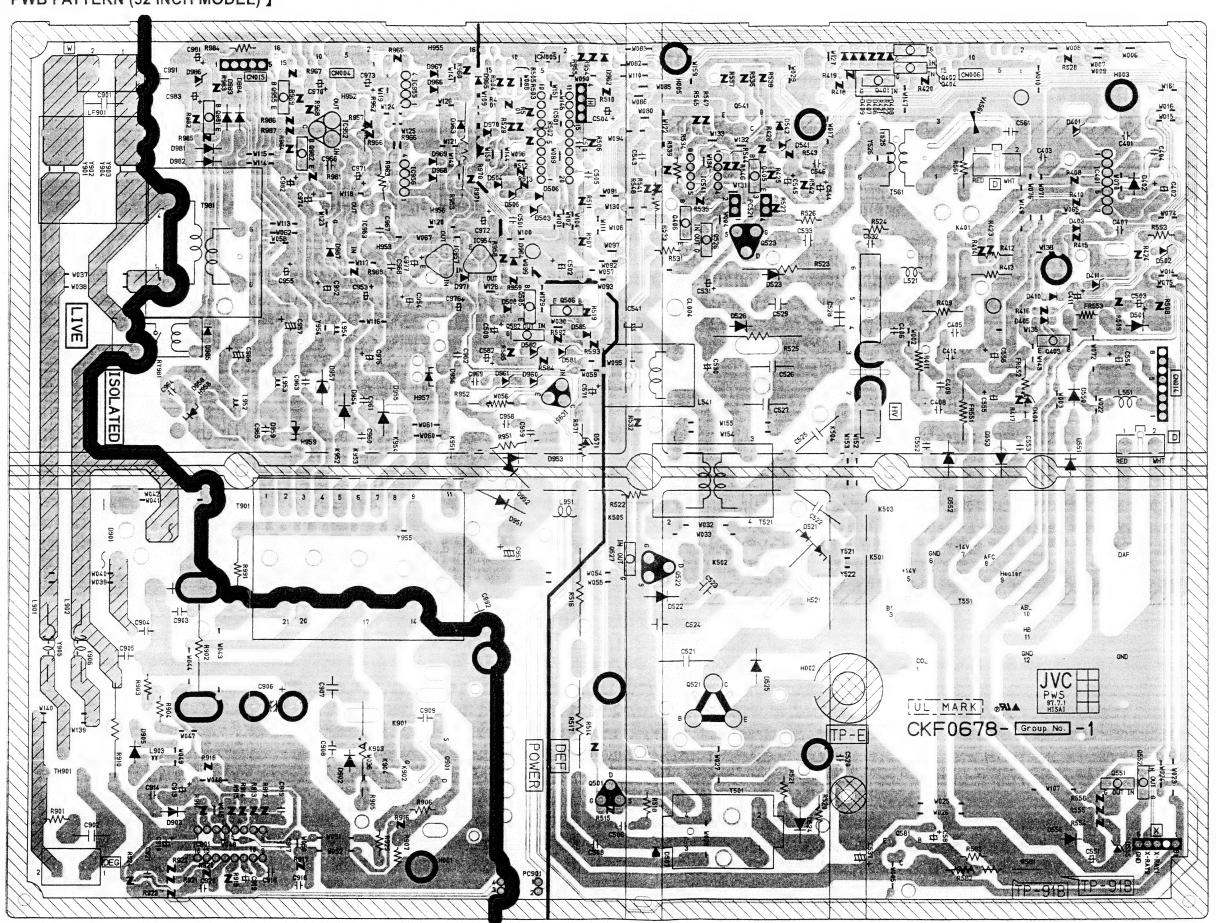
[DOLBY PWB PATTERN (BOTTOM VIEW)]





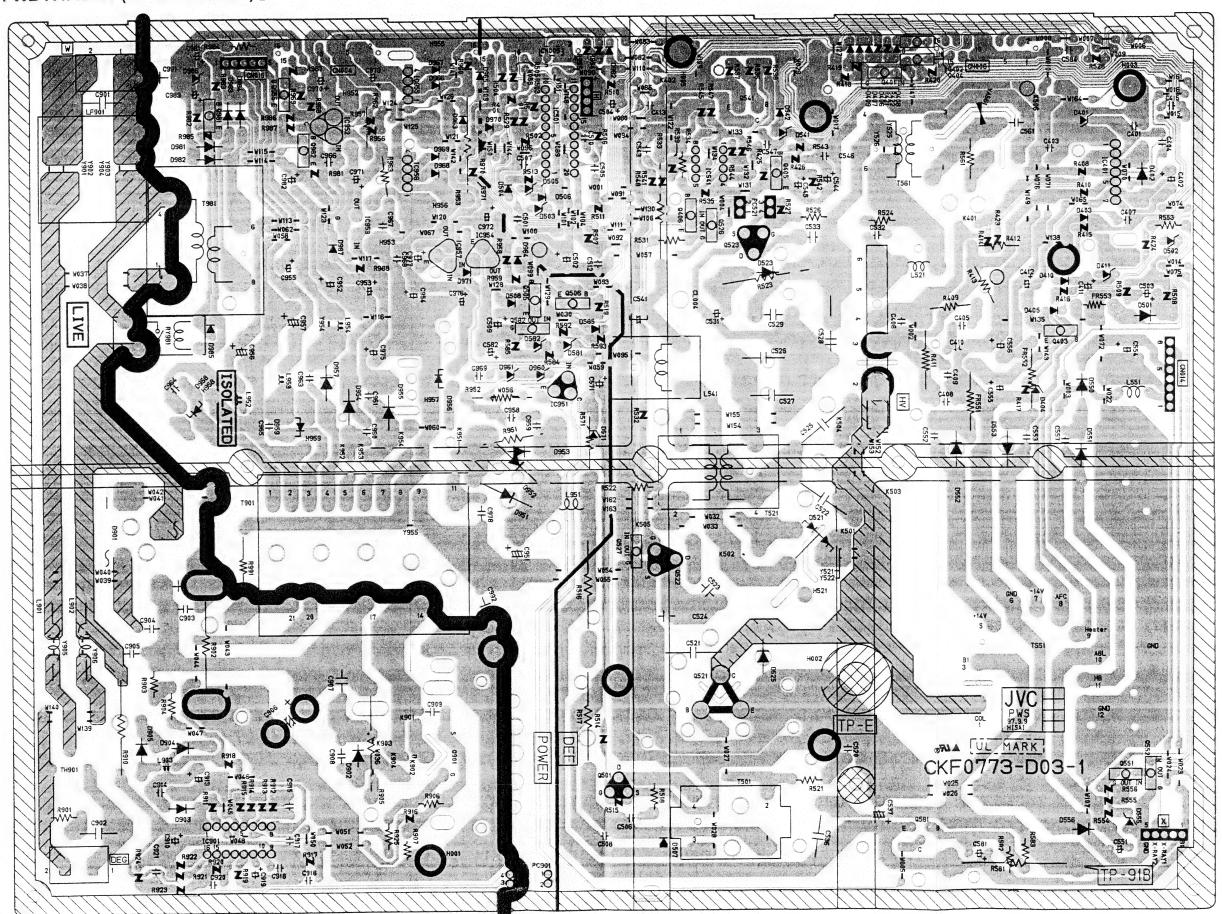
AV-32WZ2EN AV-32WZ2EN AV-32WZ2EP AV-32WZ2EP AV-28WZ2EN AV-28WZ2EN AV-28WZ2EP AV-28WZ2EP

[POWER DEF PWB PATTERN (32 INCH MODEL)]



AV-32WZ2EN AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EN AV-28WZ2EP AV-28WZ2EP

[POWER DEF PWB PATTERN (28 INCH MODEL)]



2-55

R003 C002 CN019 SP-13A CKF0835-A02 c. 中华 2008 PWS 97/09/05 WATO CN020 R002 C001 C702 日 十 CN02 0703 Er R709 R705 00 L301 41-R004 南 R701 N N C703 日_十 IC001 R702 R371 2 CN017 R706

[SUB TEXT PWB PATTERN]

SPECIFICATIONS

Model	AV-32WP2EP	AV-32WZ2EP	AV-28WZ2EP
Item			
TV RF systems	CCIR L, B/G, 1	file anticip EVT mades)	
Colour systems	PAL, SECAM (NTSC 3.58 / 4.43 N		
Channels and frequencies		59, S1-S41, X, Y, Z, Z+1, Z+2, A-H, nel frequencies 116-172 MHz and 2	
Sound-multiplex systems	A2/NICAM (B/G, L) system		
Teletext systems	Fastext (United Kingdom system)	/ TOP (German system) / WST (sta	andard system)
Power requirements	AC 220 - 240 V. 50 Hz		
Power consumption	Maximum 266 W, Average 161 W, Standby 0.8 W	Maximum 248 W, Average 151 W, Standby 0.8 W	Maximum 242 W, Average 147 W, Standby 0.8 W
Picture tube size .	Visible area 76 cm (measured diagonally)		Visible area 66 cm (measured diagonally)
Audio output	Rated Power output 20 W + 20 W + 5 W	Rated Power output 20 W + 20 W	
Speakers	10 cm round × 2, 3.5 cm round × 2, (10 cm × 3 cm oval) × 1	10 cm round × 2, 3.5 cm round × 2	
External input / output	EXT-1, EXT-2, EXT-3	21-pin Euroconnector (SCART)	
	EXT-4	VIDEO IN (RCA) AUDIO L / R IN (RCA) S-VIDEO IN (Mini Din 4-pin)	
	AUDIO OUT	(Variable out (0-1 Vrms), low im CENTRE output (RCA) FRONT L/R output (RCA) SURROUND REAR L/R output	
	Headphone jack (stereo mini jack	, dia. 3.5 mm)	
Dimensions (W × H × D)	805 mm × 550 mm × 550 mm		716 mm × 489 mm × 496 mm
Weight	50.3 kg	50.2 kg	36.3 kg
Accessories	Remote control unit RM-C791 x 1 AAA (R03) dry cell battery x 2	Remote control unit RM-C793 × AAA (R03) dry cell battery × 2	1

Design and specifications subject to change without notice.

Pictures displayed on the screen using this TV's image-processing functions should not be shown for any commercial or demonstration purpose in public places (tearooms and halls in hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this constitutes an infringement of copyright.



JVC

COLOUR TELEVISION

AV-32WP2EN / EP AV-32WZ2EN / EP AV-28WZ2EN / EP

INSTRUCTIONS

Thank you for purchasing this JVC colour television.

To ensure your complete understanding, please read this manual thoroughly before operation.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

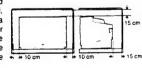
CAUTION:

TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

- Operate only from the power source specified (AC 220 240 V, 50 Hz) on the unit.
- 2. Avoid damaging the AC plug and power cord.
- Avoid improper installation and never position the unit where good ventilation is unattainable.

When installing this television, distance recommendations must be maintained

must be maintained between the floor and wall, as well as instalment in a tightly enclosed area or piece of furniture. Adhere to the minimum distance guidelines shown for safe



- Do not allow objects or liquid into the cabinet openings.
 In the event of a fault, unplug the unit and call a service
- In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

When you don't use this TV set for a long period of time, be sure to disconnect the power plug from the AC outlet.

CONTENTS

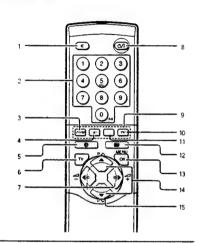
Locations of remote control buttons
PREPARATION AND BASIC OPERATION
SOUND AND PICTURE 11
OTHER FEATURES 16
TELETEXT 18
SURROUND SOUND 20
OTHER PREPARATION 22
CONNECTING AMPLIFIRES AND SPEAKERS2
TROUBLESHOOTING 25
SPECIFICATIONS 35

RATING INSTRUCTIONS

AV-32WZZEI AV-32WZZEI AV-28WZZEI

Locations of remote control buttons

OUTSIDE BUTTONS

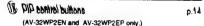


① Mute button	p.11
2 Number buttons	p.7
3 ZOOM button	p.13
④ 3D button	p.20
⑤ Information button	p.16
⑥ TV button	
② Volume -/+ buttons	p.8
Standby button	p.6. 8
Colour buttons	
(i) PIP button (AV-32WP2EN and AV-32WP2EP only.)	p.14
① P. BASS button	p.11
② TV/text button	p.18
③ OK button	
⊕ PR channel V/∧ buttons	p.7
(§ 4/▶ / ▼/A buttons	
16 Teletext/VCR control buttons	p.18
T. VCB/TEVT selector quiteb	

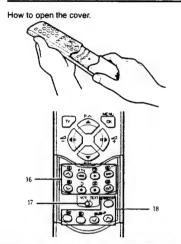
- VCR/TEXT selector switch
 - When switched to the VCR side, the ¹⁶ buttons function as the JVC VCR control buttons,

Notes

- For details on button functions, see the JVC VCR manual.
- Depending on your VCR, the remote control may not operate perfectly, and may not even control the VCR at all.
- When switched to the TEXT side, the 16 buttons function as feletext control buttons

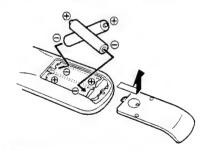


INSIDE BUTTONS



Inserting batteries into your remote control

Use two AAA/R03 dry cell batteries.
Insert two batteries, observing the ⊕ and ⊖ polarities, inserting the ⊖ end first.



CAUTION:

· Follow the cautions printed on the batteries.

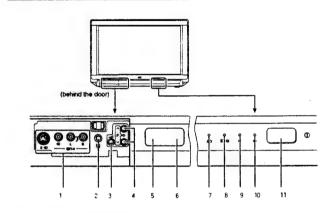
Note

- Battery life is approx. six months to one year, depending on frequency of use.
- If the remote control operates erratically, replace the batteries.
 We recommend that you use the supplied batteries.

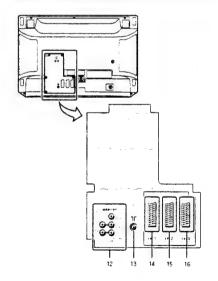
 Immortally and replace them as soon as operation becomes
- temporarily and replace them as soon as operation becomes erratic. The supplied batteries are for operational testing of the remote control, not for regular use.

Locations of TV buttons and parts

FRONT PANEL



REAR PANEL



3	Volume button	p.9
	(Press this button to display the vo- level indicator, Press the 4 Up/do	
	buttons to change volume while the	
	volume level indicator is displayed)
4	Up/down buttons	p.9
	(You can use this button as the Vi	
	buttons of the PR channel. Pressing 3 Volume button makes this button	
	function as the Volume -/+ buttons	:.)
(<u>5</u>)	Remote control sensor	
6	ECO sensor	
7	3D lamp	p.20
(8)	ECO lamp	p.12
(9)	Sleep timer lamp	p.16
(10)	Power lamp	p.6. 8
(j)	Main power button	p.6, 8
(12)	AUDIO OUT terminals	p.27
(3)	Aerial socket	p.4
14	EXT-1 terminal	0.4, 22
15	EXT-2 terminal	0.4, 22

p.4, 22

p.5

EXT-4 terminals

(6 EXT-3 terminal

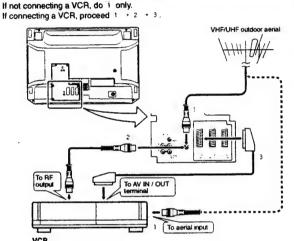
Headphone jack (mini jack)

2

p.4, 22

PREPARATION AND BASIC OPERATION

1. Connecting the aerial and VCR



- · For further details, refer to manuals provided with the devices you are connecting
- Connecting cables are not supplied
- You can view video from a VCR without doing 3. For details, refer to the manual provided with your VCR.
- Connect the S-VHS VCR to either the EXT-2 or EXT-3 connector. When the S-VHS VCR is connected to the EXT-1 connector, S-VIDEO input can not be selected.

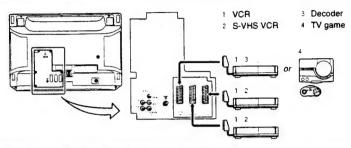
2. Connecting other external devices

 This TV set has external device connectors. EXT-1 to EXT-4 to which you can connect a VCR. However, there are some differences in functions among them. Consult the following table before making connections.

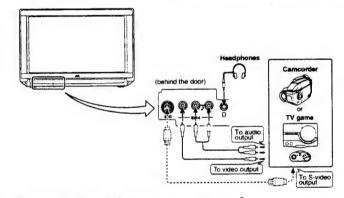
	EXT-1	EXT-2	EXT-3	EXT-4 (front)
VIDEO IN	V	N 11	. **	\ '1
VIDEO OUT	√ °2	٧,3	-	-
S-VIDEO IN	-	√11	V 44	V.11
S-VIDEO OUT	-	-	-	
RGB IN	· ·	-	I -	
AUDIO-L IN	v	` `	V	N.
AUDIO-R IN	×	V		``
AUDIO-L OUT	/ *2	v *3	-	
AUDIO-R OUT	v *2	\ '3	-	
Others		ection and switchin ection and switchin		

- 1 Select VIDEO or S-VIDEO mode from the EXT SETTING menu. For details, see page 22 "EXT SETTING".
 2 Only the TV broadcast is output. Even when a SUB picture is displayed, the output TV broadcast PR channel does not change. However, when another PR channel is being watched in the SUB exclure, if the SWAP function is used the output TV broadcast PR channel is
- "3 TV broadcasts or inputs from EXT-1, 3 or 4 can be output. For details, see page 22 "DUBBING"
- Use headphones with a stereo mini jack (dia. 3.5 mm).
- When using headphones, refer to "To listen to the sound using headphones" on page 8.
- · For further details, refer to manuals provided with the devices you are connecting.
- Connecting cables are not supplied.
- For details on how to connect the AUDIO OUT terminals on your TV and external devices such as the audio amplifiers or speakers, see page 27.

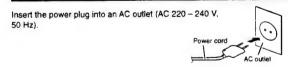
Devices which can be connected to the terminals on the rear panel



Devices which can be connected to the terminals on the front panel



3. Connecting the power cord



4. Turning the power and TV on

Press the Main power button on the TV to turn the power on.

The Power lamp lights red (power on), then green (TV

If the power lamp stays red and does not change to green: Your TV is in the standby mode. Press the Standby button on the remote control to turn your TV on.

You can also press the PR channel V/A bufton, a number bufton or the up/down button on the front panel to turn the TV on.

5. Initial Settings

- . When the TV is first turned ON, it enters into the initial setting mode, and the JVC logo is displayed.
- Press any button on the remote control.

Language menu appears.

Selecting the on-screen language

You can select your language from ten languages listed on the LANGUAGE menu. The displayed menus on the screen are described in the selected

2. Press V/A button to select ENGLISH.



Press OK button.

English is set for the on-screen display description, and the COUNTRY menu appears.

DEUTSCHLARD	SVETZERLAND
FRANCE	DANMARK
178414	SVIRIGE
EESPAGA	GSTERRESCH
HEBERLAND	WORKE
BELGIUR	SUORI
LUXERBOURG	POR TUGAL
ATT. ACT. COD	C3-4148

Automatically allocating stations to PR channels

To view a TV programme, you must first allocate broadcast stations to PR channels. You can automatically allocate up to 99 stations to PR channels PR1 to PR 99 on this TV. Broadcast stations that can be received are automatically determined and set to PR channels.

Note:

. The TV enters into the initial setting mode only once when the TV is first turned ON. If you turn the TV off or exit from the setting menu while performing the initial settings by mistake, you must redo the initial settings, "LANGUAGE" and "AUTO PROGRAM", following the procedures described in page 23.

Note:

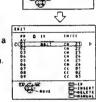
In this manual, operation procedures are explained in English as the onscreen language is set to ENGLISH If you select "FRANCAIS" from the LANGUAGE selection menus menus are all described in French of course.

Press V/▲ and </▶ button to select your

country, then press blue button. Broadcast stations are automatically allocated to the PR channels.

The EDIT menu is displayed after completed the allocation.

. If you want to edit PR channels or allocate a station to PR0 (AV) channel, see page 24 "EDIT/MANUAL" for procedural description.



· If you want to guit automatic allocation in the middle, press the TV button

The procedure is complete.

Press the TV button to exit the menu.

6. Viewing a television programme

Select a PR channel.

Selection



Press the PR channel V/∧ button

Direct channel selection

- · Press the corresponding number buttons
- (1) (5) (6) 789
- Example: To select channel 6, press "6" To select channel 12, press "1" and "2"

channel (PR 0 channel).

Notes:

- Enter "0" when selecting an AV
- . If your TV is AV-32WP2EN or AV-32WP2EP, the MULTI-PICTURE function can be used to select a PR channel. For details, refer to "MULTI-PICTURE" on page 15.

. If the nicture is not clear or no colour

appears, change the colour system

manually (see page 11 for details).

To use the PR LIST to select a PR channel



- 1. Press Information button repeatedly to select PR LIST. The PR LIST appears.
- . To exit the PR LIST, press TV button.



2. Press V/▲ button to select a PR Press button to view the next page of the PR LIST.

- previous page of the PR LIST.



Note: . The & mark will appear on the PR channel when the CHILD LOCK setting is on (see page 17)



3. Press OK button.

6

2. Press the Volume -/+ button.



The Volume level indicator appears and the volume changes as you press the Volume -/+ buttons



Turning the TV and power off

1 Press the Standby button to turn the TV off.

The Power lamp changes from green to red. The TV enters standby mode.

2. Press the Main power button on the TV to turn the main power off.

The Power lamp goes off.

Note:	

 To save energy, we recommend that you turn the main power off if you do not plan to use your TV for a long time.

To listen to the sound using headphones

Condition:
Connect headphones to the TV.

1. Press OK button.

The MENU appears.

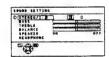




2. Press ▼/▲ button to select SOUND SETTING, then press OK button.

The SOUND SETTING menu appears.





3. Press ▼/A button to select HEADPHONE, then press OK button.

The HEADPHONE menu appears.



			21
DIVOLUME	0 _	Herrican	23
TY SPEAKER	RAJE	508	

4. Press V/A button to select TV SPEAKER, then press



VOLUME	U ==	- Territoria 2
OIY PEAKER	BAIN ON	011
(D),(C),(E)		

ON: The sound from the TV speakers is not turned off even when the headphones are connected.

OFF: The sound from the TV speakers is turned off when the headphones are connected.

Note:

 The sound output from the AUDIO OUT terminals can not be turned off

Press V/A button to select VOLUME, then press I button to adjust the volume of the headphones.



	ondrivation.	25
OUTPUT RAIN &	u-s	

6 Press OK button.

This completes the setting

To select a channel without using the remote control

You can also use the buttons on the front panel of the TV.

1. Press the Up/down button to turn your TV on.



The Power lamp changes from red to green.

2. Press the Up/down button to select the PR channel.

3. Adjust the volume.



- Press the Volume button.
 The volume level indicator appears.
- Press the Up/down button while the volume level indicator is displayed.
- To turn off your TV, press the Main power button

The Power lamp goes off.

Note:

 If your TV does not turn on, press the Main power button, and then press the Up/down button again.

Note

 PR channel selection is not available while the volume level indicator is displayed.

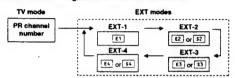
PREPARATION AND BASIC OPERATION

Viewing images from external devices

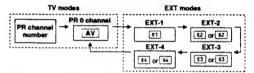
1. Repeatedly press the 0 button to select the EXT terminal.

The current selection appears, and disappears after several seconds

When a station is not registered to the PR 0 (AV) channel, pressing the 0 button changes the selection as follows:



When a station is registered to the PR 0 (AV) channel, pressing the 0 button changes the selection as follows:



TV mode:

Shows images input from an external device (such as a VCR) or TV aerial connected to the aerial socket of your TV.

EXT modes:

Shows images input from an external device (such as a VCR) connected to the selected EXT terminal.

 To use S-Video mode to view input from an S-VHS VCR, see "To select S-VIDEO input for a terminal" on page 22. When selecting EXT-2.EXT-3 or EXT-4 input terminals as S-VIDEO input, E2.E3 or E4 changes to S2.S3 or S4in the display.

SOUND AND PICTURE

MUTE

If the picture is not clear or no colour.

appears, change the colour system

When selecting an EXT terminal with

no input signal, the EXT number and

manually (see page 11).

ID become fixed on screen.

You can mute the volume to 0 instantly. This is convenient when answering the phone or when receiving visitors.

1. Press (Mute).

The sound is muted.



To restore the sound:
Press the Mute button again.

POWER BASS

You can enjoy richness and fullness of the bass sound.

1. Press P. BASS.

The POWER BASS turns on.

P. BASS

POWER BASS OR

To cancel the function: Press the P. BASS button again.

POWER BASS OFF

MULTI SOUND

You can select the multi sound mode for stereo broadcast programmes and bilingual programmes.

Note:

The MULTI SOUND function has no effect on programmes other than A2 or NICAM broadcast programmes.

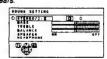
1. Press OK.

The MENU appears.



 Press ▼/▲ to select SOUND SETTING, then press OK.

The SOUND SETTING menu appears.



3. Press ▼/▲ to select STEREO / I • II.

Notes

- The multi sound mode display is different from the broadcast programme.
- The multi sound function does no work in EXT modes.
 The STEREO / I+II does not appear in SOUND SETTING.

4. Press to select a multi sound mode.

- CO : Stereo sound
- 1 : Bilingual I (Sub I)
- I : Bilingual II (Sub II)
- 0 : Normal sound

5. Press OK.

This completes the setting.

Note:

 When you display the current PR channel number, the current multi sound mode appears for approximately 3 seconds.

TINT

You can choose from among three TINT modes.

1. Press OK.

The MENU appears.

 Press ▼/▲ to select PICTURE SETTING, then press OK.

The PICTURE SETTING menu appears.

Press ▼/A to select TINT.



 Press ◄/➤ to select a tint mode.

COOL:

A cool white colour base with a boost in the colour and contrast levels. Creating a more vivid picture

WARM:

Use this mode when viewing film programmes.

NORMAL:

A normal white colour base with no boost in the colour or contrast levels.

5. Press OK.

This completes the setting

COLOUR SYSTEM

The colour system is automatically selected, but if the picture is not clear or no colour appears, select the colour system manually.

1. Press OK.

The MENU appears.

 Press ▼/▲ to select PICTURE FEATURES, then press OK.

The PICTURE FEATURES menu appears.



 Press ▼/▲ button to select COLOUR SYSTEM, then press OK.

The COLOUR SYSTEM menu appears.



 Press ♥/▲ button to select MAIN or SUB.

> If your TV is not AV-32WP2EN or AV-32WP2EP, the SUB will not appear. So you can skip this operation.

MAIN:

You can select the colour system of MAIN picture.

SUB:

You can select the colour system of SUB picture.

Press ◄/▶ to select the appropriate colour system.

PAL:

PAL system.

SECAM: SECAM system.

NTSC3.58:

NTSC 3.58 MHz system.

NTSC4.43:

NTSC 4.43 MHz system.

AUTO:

Automatic colour system selection.

- Auto may not function properly depending on signal quality. If the picture is abnormal in AUTO mode, select another colour system manually.
- When in TV mode (PR 1 to PR 99), you cannot select AUTO, NTSC 3.58 or NTSC 4 43.
- When in TV mode (PR 0), you cannot select NTSC 3.58 or NTSC

6. Press OK.

This completes the setting.

PICTURE/SOUND ADJUSTMENT

You can adjust the picture and sound as you like.

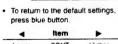
To adjust the picture

- 1. Press OK. The MENU appears.
- 2. Press V/A to select PICTURE SETTING, then press OK.

The PICTURE SETTING menu appears.



3. Press V/A to select an item, and press 4/▶ to adjust it.



CONTRAST _____

Lower	CONT.	Higher
Darker	BRIGHT cture brightnes	Brighter
Softer (pi	SHARP cture sharpnes	Sharper ss)
Lighter	COLOUR (picture colour	Deeper
Reddish	HUE (picture hue)	Greenish

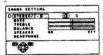
- You can adjust the HUE (picture hue) only when the colour system is NTSC 3.58 or NTSC 4.43.
- 4. Press OK.

This completes the setting.

To adjust the sound

- 1. Press OK.
 - The MENU appears.
- 2. Press V/A to select SOUND SETTING, then press OK.

The SOUND SETTING menu appears.



Note:

When DOLBY' PRO LOGIC or PRO LOGIC 3D-PHONIC is selected in DIGITAL SURROUND menu BALANCE and SPEAKER do not appear

Manufactured under license from Dolby laboratories Licensing "Dolby", the double-D symbole

and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.

3. Press V/▲ to select an item, and press 4/▶ to adjust it.

4	Item	•
Weaker	BASS	Stronger
(low	frequency so	und)
Weaker	TREBLE	Stronge
(high	frequency so	aund)
Left	BALANCE audio balance	Right

SPEAKER ON/OFF:

Use this function if you connect an audio amplifier and front speakers to your TV. If you set this function to OFF, sound is no longer output from the TV's speakers. For details, see "To use 2 external speakers* on page 27.

4. Press OK.

This completes the setting.

FCO MODE

When you set ECO mode to ON, the screen contrast is automatically adjusted to a setting suitable for the brightness of your room. This reduces eve strain and the power consumption of the TV.

1. Press OK.

The MENU appears.

2. Press V/▲ to select PICTURE SETTING, then press OK.

> The PICTURE SETTING menu appears.

3. Press V/A to select ECO.



- 4. Press **4/**▶ to select ON. OFF.
- 5. Press OK.

This completes the setting.

. If you turned on ECO mode, the ECO lamp lights.

NATURAL SCAN

When you set NATURAL SCAN to ON, you can remove the horizontal line vibration on the screen so improving picture stability further.

1. Press OK.

The MENU appears.

2. Press V/A to select PICTURE FEATURES, then press OK.

The PICTURE FEATURES menu appears.

3. Press V/▲ to select NATURAL SCAN.



- 4. Press **4/**▶ to select ON,
- 5. Press OK.

This completes the setting.

DIGITAL VNR

When you set DIGITAL VNR to ON. you can reduce the noise on the screen so improving picture quality

1. Press OK.

The MENU appears.

2. Press V/▲ to select PICTURE FEATURES, then press OK.

The PICTURE FEATURES menu annears

3. Press V/▲ to select DIGITAL VNR.



- 4. Press **◄/**▶ to select ON,
- 5. Press OK.

This completes the setting.

ZOOM

Select a ZOOM mode to change the picture format. You can enlarge the picture to fill the wide TV screen (16:9 aspect ratio). In addition, you can stretch a normal picture (4:3 aspect ratio) to fill the wide TV screen

Notes:

- The picture format information of the present broadcasting programme may be received as WSS (Wide Screen Signalling). When AUTO mode is selected for ZOOM mode and the WSS signal is received, this TV automatically selects the optimum ZOOM mode corresponding to the WSS signal. However, in the case of weak WSS signal reception, this function may not work correctly. In this case, select an optimum ZOOM mode manualty.
- If the EXT-1, EXT-2 or EXT-3 terminal's input is from a picture signal with a 16:9 aspect ratio picture format, the ZOOM mode may automatically changes to FULL mode. This is because the TV detects an identification signal which is not an WSS signal.

Manual ZOOM selection

you can select a disired ZOOM mode manually.

1. Press ZOOM repeatedly to select a ZOOM mode.

The picture expands.

REGULAR mode:

Use to view a normal picture (4:3 aspect ratio) unchanged.



PANORAMIC mode:

Stretches the left and right sides of a normal picture to fill the screen, in a way that does not appear unnatural







In PANORAMIC mode, the top and bottom of the picture are slightly cut off.

16:9 ZOOM mode:

Use to expand a wide picture (16:9 aspect ratio).





14:9 ZOOM mode:

Use to expand a picture with a 14:9 aspect ratio





(14:9 ZOOM)

15:9 ZOOM SUBTITLE mode: Use to expand a picture with a 16:9 aspect ratio having subtitles at the bottom of the screen.



(16:9 ZOOM SUBTITLE)

FULL mode:

Uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.





For pictures with a 16:9 aspect ratio that have been squeezed into a normal picture (4:3 aspect ratio). select FULL mode to restore their

To move the picture vertically:

If you cannot see subtitles at the bottom of the screen, or if the top or bottom is cut off, move the picture vertically.

Note:

 You cannot move the picture vertically in AUTO, REGULAR and FULL mode.

Press ZOOM.

The current ZOOM mode is displayed.



2. Before the display disappears, press ▼/▲ to move the picture up or down.

Note:

If you change the ZOOM mode. the picture returns to its default

Automatic ZOOM selection (AUTO mode)

You can set your TV to automatically select the optimum ZOOM mode to suit the picture format.

1. Press ZOOM repeatedly to select AUTO.

Your TV automatically selects the optimum ZOOM mode to suit the current programme's picture format.

Note:

This function may not work correctly depending on the programme. In this case, select the optimum ZOOM mode manually

(Continued to the next page)

AV-32WZ2EN AV-32WZ2EN AV-28WZ2EN AV-28WZ2EN

SOUND AND PICTURE

To preset a ZOOM mode for the normal picture:

You can preset one of three ZOOM modes, REGULAR, PANORAMIC or 14:9 ZOOM, as the ZOOM mode for the normal picture (4:3 aspect ratio).

1. Press OK.

The MENU appears.

 Press ▼/▲ to select PICTURE FEATURES, then press OK.

The PICTURE FEATURES menu appears.

Press ▼/▲ to select 4:3
 AUTO ASPECT, then press
 OK.

The 4:3 AUTO ASPECT menu appears.

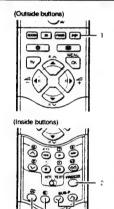


Press V/A to select a ZOOM mode.

5. Press OK.

This completes the setting.

PIP (AV-32WP2EN, AV-32WP2EP only)



- 1 PIP button
- FREEZE button
- 3 Multi button
- 4 Swap button
- 5 SUB-P V// button

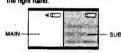
BASIC OPERATION

You can select two types of PIP picture mode.

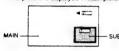
 Press PIP repeatedly to select a PIP mode.

Two pictures are displayed in the Seme films,

Twin pictuers mode:
MAIN-picture is displayed on the left hand and SUB-picture is displayed on the right hand.



Picture in picture mode: SUB-picture is displayed in Main picture



 Press SUB-P V/A to select the SUB-picture's PR channel or EXT mode.

> To clear the SUB-picture: Press the PIP button again.

Notes

- The PR channel or EXT mode image which is the same as the MAIN-picture can not be selected
- The movement of the Sub-picture image is not as smooth as that of the MAIN-picture image.
- If the MAIN-picture image signal condition is bad, the SUB-picture image may be disordered. If the MAIN-picture image signal condition is improved, the SUB-picture image also improves.
- If the picture standard of the MAIN-picture and SUB-picture are different, the top and bottom of one of them may be missing.
- If an external device is operated, the SUB-picture may disappear. If this happens, press the PIP button once more and redisplay the SUBpicture.
- If the SWAP button is pressed when the image from the external decoder is displayed in the MAIN-

picture: the same image is displayed in both the MAIN picture and SUB-picture. It the SWAP button is pressed once more, the previous state is returned to. In the Twin pictures mode, a horizontal line is displayed at the top of the screen. This is normal and is not a multiurction.

To change the position of SUB-picture in Picture in picture mode:

You can select the one of four positions of the SUB-picture in Picture in picture mode.

1. Press OK.

The MENU appears.

 Press ▼/▲ to select PICTURE FEATURES, then press OK.

The PICTURE FEATURES menu appears.

3. Press ▼/▲ to select PIP, then press OK.

The PIP menu appears.



- Press ▼/A to select PIP POSITION, then press ◀/> to select the position.
- 5. Press OK.

The menu disappears.

To listen to the sound of the SUB-picture

While llistening to the sound of the main picture on the speakers, you can listen to the sound of SUB-picture on your headphones.

1. Press OK.

The MENU appears.

 Press ▼/▲ to select SOUND SETTING, then press OK.

The SOUND SETTING menu appears

3. Press V/A to select HEAD-

PHONE, then press OK.

The HEADPHONE menu appears

OTEMPI O SUB 25 OF STATE OF ST

 Press ▼/▲ to select TV SPEAKER, then press ◄/▶ to select ON or OFF.

ON:

Main pisture sound from speakers while listening to the sound on your headphones. OFF:

No sound from speakers

 Press V/A to select OUTPUT, then press 4/> to select SUB.

MAIN:

You can listen to the sound of MAIN picture on your headphones.

Press V/A to select VOLUME, then press √/>> to adjust the volume of the headphones.

7. Press OK.

The menu disappears.

Notes:

- When the SUB-picture is in TV mode, the SUB-picture sound is monaural only.
- The Multi sound function does not work for the SUB-picture sound.
- Neither any of the surround sound functions or the POWER BASS function work for the SUB picture sound.

MULTI-PICTURE

The PR channel and EXT mode images can be displayed as still pictures on the outside of the MAIN-picture, and the image which you want to see can be selected from these still pictures and seen as the MAIN-picture.

1. Press the Multi button.

The PR channel and EXT mode images are displayed in the channe number order. Only the image which is displayed last is left as a moving picture. The other images change to still pictures.

Note: • The MAIN-picture PR channel number or EXT mode number is skipped. AN Sell pictures



5-pictures multi

In order to display the next PR channel or EXT mode image:
Press the Multi-button again.
To clear the Multi-pictures:
Press the TV button.

2. Press the ▼/▲ button or SUB P V/∧ button and select the PR channel or EXT terminal image that you want to see.

The selected image changes from a still picture to a moving picture.

3. Press OK.

The Multi-pictures disappear and the MAIN-picture image changes to the selected PR channel or EXT terminal image.

To select the multi-picture style

You can select one of two multipicture's styles.

1. Press OK.

The MENU appears.

Press ▼/▲ to select PICTURE FEATURES, then press OK.

The PICTURE FEATURES menu appears.

Press V/A to select PIP, then press OK.

The PIP menu appears.



 Press ▼/▲ to select MULTI-PICTURE, then press ◄/► to select a multi-picture's style.

5. Press OK.

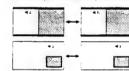
The menu disappears.

SWAP

You can swap MAIN and SUB-pictures

1. Press the Swap button.

Each time you press the Swap button, the MAIN picture and SUB-picture swap.



Notes:

 If the SWAP button is pressed when the image from the external decoder is displayed in the MAIN picture, the same image is displayed in both the MAIN picture and SUB picture. If the SWAP button is pressed once more, the previous stale is returned to.

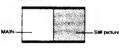
 When another PR channel is being watched in the SUB picture, if the SWAP function is used the TV broadcast PR channel, which is output from the EXT-1, EXT-2 or EXT-3 terminal, is switched.

FREEZE

You can view the MAIN-picture's frozen image as the SUB-picture.

1. Press FREEZE.

The main picture's frozen image (still picture) is displayed as the SUB-picture.



To cancel the FREEZE function: Press the FREEZE button again.

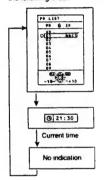
OTHER FEATURES

INFORMATION

You can display the PR LIST or the current time.

1. Press (Information) repeatedly.

The display changes cyclically in the following order.



About PR LIST:

 Ten positions including the currently selected PR channel will be displayed as a list.
 Press ▼/▲ / ◀/▶ to select the

Press V/▲ / ◀/▶ to select the desired PR channel. For details see page 7.

About the current time display: This TV uses teletext data to determine the current time.

- If the TV has not received a station that has teletext data since it was turned on, the time display is blank.
 To view the current time, select a station that is broadcasting teletext data. As long as you do not turn off the TV, then even if you select other stations, the time will still be displayed.
- When watching videos, the wrong current time is sometimes displayed.

SLEEP TIMER

You can set the TV to automatically turn off after a specified period of time.

- Note:
 The SLEEP TIMER does not turn off the Main power.
- 1. Press OK.
 The MENU appears.
- 2. Press ♥/▲ to select FEATURES, then press OK.

 The FEATURES menu appears.



Press ▼/▲ to select SLEEP TIMER, then press OK.

The SLEEP TIMER menu appears.



Press
 to select a period of time.

You can set the period of time a maximum of 120 minutes in 10 minute increments.

OFF:

Turns off the SLEEP TIMER.

- 5. Press OK.
 - The Sleep timer lamp lights if you set the SLEEP TIMER.

To display the remaining Sleep timer

Perform steps 1 to 3 to display the SLEEP TIMER menu, and press OK button when you finish checking the

To turn off the Sleep timer:

Perform steps 1 to 3 to display the SLEEP TIMER menu, press ◀ button to select "OFF", and then press OK button.

The Sleep timer lamp goes out.

Note:

 One minute before the SLEEP TIMER turns off the TV, "GOOD NIGHT!" appears.

BLUE BACK

When viewing a PR channel with no or poor reception, or if there is no input from an external device, you can mute the sound and change the picture into a blue picture.

1. Press OK.

The MENU appears.

 Press ▼/▲ to select FEATURES, then press OK.
 The FEATURES menu appears.



3. Press ▼/▲ to select BLUE BACK.



- Press ◄/▶ to select ON or OFF.
- 5. Press OK.

This completes the setting.

CHILD LOCK

You can lock some PR channels to prevent your children from watching them.

To set the CHILD LOCK

1. Press OK.

The MENU appears.

2. Press ▼/▲ to select FEATURES, then press OK.

The FEATURES menu appears.



3. Press ▼/▲ to select CHILD LOCK, then press 0 button.

The SET ID NO menu appears.



- 4. Enter the ID number.
 - Press V/A to select a number.
 Press √/► to move the cursor.
- 5. Press OK.

The CHILD LOCK menu appears.



Press ▼/▲ to select a PR channel, then press blue button.

The selected PR channel is locked.



- To cancel the CHILD LOCK: Press blue button again.
- Repeat step 6 to lock all PR channels which you want to lock.
- 7. Press OK.

This completes the setting.

Motor

- You cannot select a locked PR channel using the PR channel V/A buftons.

 Even if you can select a locked channel.
- Even if you can select a locked chann and display it, you can not view the programme of the locked channel.

To view a locked PR channel

- Select a locked PR channel.
 - Use the number buttons to select the PR channel.

The locked channel is displayed.



2. Press (Information).

The ID NO. input menu appears.



Press the number buttons to enter the ID number.

You are now viewing the locked PR channel.

If you forget the ID number:
Perform steps 1 to 3 of "To set the
CHILD LOCK". After you confirm the ID
number, press the TV button to exit the

DEMONSTRATION

The demonstration runs automatically and introduces the menus of this TV's main features.

1. Press OK.

The MENU appears.

 Press ▼/▲ to select DEMO, then press OK.

The demonstration begins.

 To stop the demonstration, press any button on the remote control.

INDEX

You can go to the desired function's menu directly from this INDEX

1. Press OK.

The MENU appears.

 Press ▼/▲ to select INDEX, then press OK.

The INDEX menu appears.



Press ▼/A to select the function you want to use, then press OK.

Your selected function's menu or the menu which includes your selected function appears.

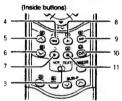
 To return to the MENU, press the Information button.

TELETEXT

If you have trouble receiving teletext broadcasts, consult your local dealer or the teletext station

(Outside buttons)





- Colour buttons
- TV/text button
- VCR/TEXT selector switch
- . When this switch is set to the TEXT side, the following buttons function as the teletext control
- 4 MODE button
- HOLD button
- SUB PAGE button
- STORE button
- REVEAL button
- SIZE button
- 10 INDEX button
- 11 DISPLAY CANCEL button

BASIC TELETEXT OPERATION

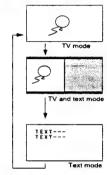
You can view three types of teletext broadcasts on the TV: Fastext, TOP and WST. The TV automatically recognizes the type of teletext broadcast.

Condition:

The VCR/TEXT selector switch must already be set to the TEXT side.

1. Select a channel with a teletext broadcast.

2. Press (TV/text).



- If your TV is not AV-32WP2EN or AV-32WP2EP, the TV and Text mode can not be selected
- The movement of the TV image in the TV and text mode is not as smooth as that in the TV mode

3. Select a page number.

Browse:

Press the PR channel V/A button on the remote control

Direct selection:

Press the number buttons to enter a three-digit page number

Colour button selection:

Press a colour button to select the corresponding page number on the bottom line of the screen.

- Category names of teletext pages may appear instead of page numbers.
- In principle, ZOOM mode is fixed to FULL mode when you view Teletext programmes.
- Some Teletext programmes display a mixture of regular TV programmes and Teletext information. When viewing these programmes, ZOOM mode returns to the mode you selected before you started viewing Teletext programmes. With the ZOOM mode the Teletext information. may not be displayed in the correct position. If this happens press the TV/Text button to cancel the Text mode, then press the ZOOM button to change the ZOOM mode to the PANORAMIC mode or FULL mode.
- To return to TV mode, press the TV/text button repeatedly.

- You can also return to TV mode by pressing the TV button.
- None of the MENU operations are possible in the Text mode. Perform the MENU operation after pressing the TV/ Text button to cancel the Text mode.
- In the TV and text mode, a horizontal line is displayed at the top of the screen. This is normal and is not a malfunction.

DISPLAY CANCEL

You can search for a teletext page while watching TV.

- 1. Select a teletext page.
 - The TV searches for a teletext page.

2. Press DISPLAY CANCEL.

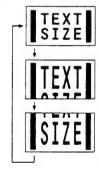
The TV programme appears. When the TV finds the teletext page, its page number appears in the upper left of the screen

3. Press (TV/text) when the page number is on the screen.

SIZE

You can double the height of the teletext display.

1. Press SIZE repeatedly.



HOLD

You can hold a teletext page on the screen for a desired length of time. even while several other teletext pages are being received.

1. Press HOLD.

s displayed in the upper left of the screen, and the teletext page is held on the screen.



To release hold mode: Press HOLD button again

INDEX

Just press INDEX button to return to the index page

1. Press INDEX.

Fastext/TOP/WST:

Returns to page 100 or a previously specified page

LIST mode:

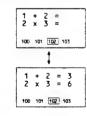
Returns to the page number displayed in the lower left area of the screen

REVEAL

Some teletext pages include hidden text (such as answers to a quiz).

1. Press REVEAL.

Each time you press REVEAL button, text is hidden or revealed.



LIST MODE

If you store the numbers of teletext pages you view often, you can quickly call up a desired teletext page whenever you like.

You can store up to 64 pages in memory. You can store four pages in each channel from 1 to 15 (60 pages). and four pages that are the same for al channels above channel 15 (4 pages).

To store the page numbers

1. Press MODE to engage LIST mode.

Stored page numbers are displayed at the bottom of the screen.

2. Press a colour button, then enter the number of the teletext page.

To assign other pages to remaining colour buttons, repeat this operation.

3. Press and hold STORE.

The four page numbers blink white to indicate that they are stored in memory.

To call up a stored page

1. Press MODE to engage LIST mode.

Stored page numbers are displayed

at the bottom of the screen. To release LIST mode: Press MODE button again.

2. Press a colour button to which a page has been assigned.

SUB PAGE

Some teletext pages include subpages that are automatically displayed. You can hold any subpage, or view it at any time.

- 1. Call up a teletext page with sub-pages.
- 2. Press SUB PAGE.

Sub-page numbers are displayed at the left of the screen.

Background colour of the subpage number is yellow: This is the number of the sub-page which is currently being displayed.

Background colour of the subpage number is white: These are the numbers of the subpages which can be displayed.

Background colour of the subnage number is blue or red: These are the numbers of subpages which have not been sent and can therefore not be displayed.

3. Press V/A button to select a sub-page number.

SURROUND SOUND

DOLBY PRO LOGIC 3D-PHONIC

You can enjoy the ambiance of Dolby Surround encoded programmes.

Condition:

Before performing the procedure. disconnect headphones from the TV.

- This function works only with Dolby Surround encoded programmes.
- When operating this function, the TV's 3D lamp lights up.
- This function does not work correctly when listening to the sound with headohones.
- 1. Press OK.

The MENU appears.

2. Press V/A to select DIGITAL SURROUND, then press OK.

> The DIGITAL SURROUND menu appears, showing the currently active function

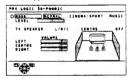


3. Press V/▲ to select PRO LOGIC 3D-PHONIC.

> To cancel the function: Select SURROUND OFF, then press the OK button

4. Press ▶

The PRO LOGIC 3D-PHONIC menu appears.



- 5. Press V/A to select MODE.
- 6. Press **4/**▶ to select the desired mode.

NORMAL:

For normal programmes CINEMA/SPORT: For cinema and aborts programmes

For music programmes

To adjust the effect level: Press the V/A button to select I EVEL then press the 4/1 button to adjust the effect level.

To adjust the volume level of each speaker:

Press ▼/▲ button to select LEFT. CENTRE or RIGHT, then press the ■/> button to adjust the volume

Note:

Since models other than AV-32WP2EN and AV-32WP2EP do not have a centre sneaker built in to the TV. CENTRE can not be selected However when 2 external speakers are being used the TV speakers can be used as the centre speaker, so CENTRE can be selected

TV SPEAKER:

This setting is only changed when 2 external speakers are being used. For details, refer to "To use 2 external speakers" on page 27.

When not using external speakers, leave the TV SPEAKER setting as L/R/C (L/R in the case of models other than AV-32WP2EN and AV-32WP2EP) Otherwise sound may not come out of the TV speakers or the sound may become monaural

7. Press OK.

Nate:

If, while using this function, you connect headphones to your TV, the 3D HEADPHONE function (see next page) activates automatically. However, if SPEAKER is set to ON in the HEADPHONE menu, the 3D HEADPHONE function is not activated

To turn on/off DOLBY PRO LOGIC 3D-PHONIC with one touch

1. Press 3D.

DOLBY PRO LOGIC 3D-PHONIC turns on.



PRO LOGIC TO-PHONIC

Note:

If 3D HEADPHONE appears, disconnect the headphones from

To cancel the function: Press the 3D button again.

SURROUND SET

To return the previous surround function: Press the 3D button twice.

DIGITAL SURROUND

You can enjoy any one of the four Digital Surround function.

Condition:

- Before performing the procedure. disconnect headphones from the TV.
- 1. Press OK.

The MENU appears.

2. Press VIA to select DIGITAL SURROUND, then press OK.

> The DIGITAL SURROUND menu appears, showing the currently active function.



3. Press V/A to select the desired function.

DANCE CLUB:

For the atmosphere of a dance club CONCERT HALL:

For the atmosphere of a concert hall

STADIUM:

For the atmosphere of a stadium HYPER SOUND:

To give monaural sound the spacious feeling of stereo sound

To cancel the function: Select SURROUND OFF.

4. Press OK.

Notes:

Only HYPER SOUND works well with monaural sound programmes

HYPER SOUND does not work well with stereo sound programmes.

If, while using this function, you connect headphones to your TV. Headphone Surround (see next page) activates automatically. However, if SPEAKER is set to ON in the HEADPHONE menu. the HEADPHONE SURROUND function

HFADPHONE SURROUND

You can enjoy surround sound on your headphones. You can enjoy any one of the four Headphone surround functions.

Condition:

- Before performing this procedure. connect headphones to the TV.
- 1. Press OK.

The MENU appears.

2. Press V/A to select HEADPHONE SURROUND. then press OK.

The HEADPHONE SURROUND menu appears, showing the currently active function.



If HEADPHONE SURROUND does not appear in the MENU, set SPEAKER in the HEADPHONE menu to OFF. For details, refer to "To listen to the sound using headphones" on page 8.

3. Press V/A to select the desired function.

> 3D HEADPHONE: For a broad, atmospheric sound DANCE CLUB:

For the atmosphere of a dance club CONCERT HALL: For the atmosphere of a concert hall

STADIUM: For the atmosphere of a stadium

HYPER SOUND: To give monaural sound the spacious teeting of stereo sound

To cancel the function: Select SURROUND OFF.

4. Press OK.

Note:

HYPER SOUND does not work well with stereo sound programmes.

To turn the 3D HEADPHONE on/off with one touch

1. Press 3D.

3D HEADPHONE turns on.





Note:

. If PRO LOGIC 3D-PHONIC is still displayed, set SPEAKER in the HEADPHONE menu to OFF.

To cancel the function: Press the 3D button again.

To return the previous surround function:

Press the 3D button twice.

DOLBY PRO LOGIC SURROUND

You can also use Dolby Pro Logic Surround sound with 4 or 5 speakers. If you wish to use this system, additional amplifiers and speakers are required. For details, see "To use 4 or 5 speakers" on page 28.

Condition:

- Before performing the procedure. disconnect headphones from the TV.
- This function works only with Dolby Surround encoded programmes.
- 1. Press OK.

The MENU appears.

2. Press V/▲ to select DIGITAL SURROUND, then press OK.

> The DIGITAL SURROUND menu appears, showing the currently active function.



3. Press V/▲ to select DOLBY PRO LOGIC.

> To cancel the function: Select SURROUND OFF.

4. Press OK.

If, while using this function, you connect headphones to the TV, the 3D HEADPHONE function (see above) activates automatically. However, note that you cannot use Dolby Pro Logic Surround with headphones. If SPEAKER is set to ON in the HEADPHONE menu. the HEADPHONE SURROUND function ic not activated

OTHER PREPARATION

EXT SETTING

You can select S-VIDEO or normal input for the EXT-2, EXT-3 and EXT-4 terminals, and you can give an EXT ID to each EXT input terminal.

To select S-VIDEO input for a terminal

- 1. Press OK.
- The MENU appears.
- Press V/▲ to select EXT SOURCE, then press OK.

The EXT SOURCE menu appears



 Press ▼/A to select EXT SETTING, then press OK.

The EXT SETTING menu appears



- Press ▼/▲ to select an EXT input terminal.
- 5. Press yellow button.

The S-VIDEO input indication appears.

 To select normal input, press yellow button again.



- If you want to set an EXT ID here perform the operation procedures from the step 4 of the section "To give an EXT ID to an EXT input terminal" in the next column.
- 6. Press OK.

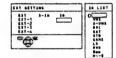
The menu disappears.

To give an EXT ID to an EXT input terminal

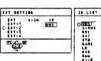
- 1. Press OK.
- The MENU appears.
- Press V/▲ to select EXT SOURCE, then press OK.
 The EXT SOURCE menu appears.
- 3. Press V/▲ to select EXT SETTING, then press OK.

 The EXT SETTING menu appears.
- Press ▼/▲ to select an EXT Input terminal.
- 5. Press blue button.

The ID LIST appears.



Press ▼/▲ to select a EXT ID.



- Note:
- To erase the EXT ID, select a blank space.
- 7. Press OK.
- This completes the procedure.
 Press the TV button to exit the menu.

DUBBING

Select output to a VCR or other device connected to the EXT-2 terminal. Note that you cannot output from the EXT-2 terminal when the TV is turned off.

- Note:
- RGB signals from TV games and TELETEXT screens cannot be output from EXT-2 terminal.
- 7. Press OK.

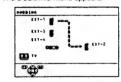
The MENU appears.

Press ▼/▲ to select EXT SOURCE, then press OK.

The EXT SOURCE menu appears.

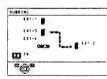
 Press ▼/▲ to select DUBBING, then press OK.

The DUBBING menu appears.

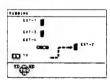


Press ▼/▲ to select the input which you want to output from EXT-2.

TV: The sound and picture of the currently selected PR channel is output from EXT-2, so you can record the output on a VCR connected to the EXT-2 terminal while watching a video input from the EXT-1, EXT-2 or EXT-4 terminal. Even when a SUB picture is displayed, the output TV broadcast PR channel does not change. However, when another PR channel is being watched in the SUB picture. if the SWAP function is used, the output TV broadcast PR channel is switched.







5. Press OK.
The menu disappears.

LANGUAGE

You can select one of ten languages for the on-screen display.

1. Press OK.

The MENU appears.

2. Press V/▲ to select INSTALL, then press OK.

The INSTALL menu appears.



3. Press V/▲ to select LANGUAGE, then press

The LANGUAGE menu appears.



- Press ▼/▲ to select a language.
- 5. Press OK.

This completes the setting.

AUTO PROGRAM

You can automatically allocate up to 99 stations to PR channels PR 1 to PR99 on this TV. When the TV receives a signal describing the station's name, it allocates those stations, station IDs, and registers then as they were preset at the JVC factory.

1. Press OK.

The MENU appears.

2. Press ▼/▲ to select INSTALL, then press OK.

The INSTALL menu appears.

 Press ♥/▲ to select AUTO PROGRAM, then press OK.

The COUNTRY menu appears.



 Press V/A / √/▶ to select your country.

Note

- If you make a mistake when selecting your country, or do not want to use the Automatic allocation function, press OK button to return to the INSTALL
- 5. Press blue button.

The PR channel is automatically set and the EDIT menu is displayed.

- If you want to edit PR channels or allocate a station to PR0 (AV) channel, see page 24 "EDIT/ MANUAL" for procedural description.
- Note:
- It a station you want to view is not allocated to a PR channel, perform Manual allocation (see page 26).
- The procedure is complete.
 Press the TV button to exit the menu.

EDIT/MANUAL

You can change PR channel settings by doing any of the following:

- · You can delete an unwanted station from a PR channel.
- · You can change the PR channel number of a station,
- · You can add station IDs to PR channels,
- · You can add a new station to a PR channel, or
- · You can manually allocate the desired station to a PR channel.

To edit PR channels

- 1. Press OK. The MENU appears.
- 2. Press V/A to select INSTALL, then press OK. The INSTALL menu appears.
- 3. Press V/A to select EDIT/ MANUAL, then press OK. The EDIT menu appears.



- 4. Use any of the procedures described in the following pages to change the PR channel settings.
- This completes the procedure. Press the TV button to exit the menu.

To delete a station from a 3. Press V/▲ to move the PR channel

1. Press V/▲ to select the station you want to delete.



2. Press vellow button.



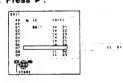
Stations allocated to PR channels following the deleted PR channel number are shifted back by one to the preceding PR channel number

To change the PR channel number of a station

1. Press V/A to select the station.



2. Press ▶



selected station to the desired PR channel number.

. To cancel the operation, press the (Information) button.

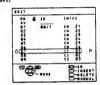


4. Press ◀.

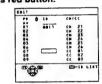


To add a station ID to a station

1. Press V/A to select the station.



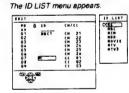
2. Press red button.



3. Press V/▲ to select the first letter of the desired station's ID.



4. Press blue button.



- 5. Press V/A to select the station ID.
- · To cancel the operation, press the (Information) button.
- 6. Press OK.

Returns to the EDIT menu.



Programming a station's ID manually:

Follow the operations below in place of steps 3 thru 5.

- (1) Press the V/▲ button repeatedly to select a character.
- (2) Press the button to move cursor to input position. Pressing the ◀ button moves the cursor backward.
- (3) To complete station ID, follow steps (1) and (2) repeatedly. A station ID can have up to 5

To add a new station to a PR channel

characters

1. Press V/▲ to select the row containing the PR channel number to which you want to add a station.



- Press green button.
- 3. Press V/A to display the enter number indicator.

CH: to add terrestrial broadcast stations

CC: to add cable TV stations

AV-32WP2EP, AV-32WZ2EP and AV-28WZ2EP only: If COUNTRY is set to FRANCE,

select one of the following four CH1: to add a system L terrestrial

broadcast channel

CH2: to add a system B/G or I terrestrial broadcast channel CC1: to add a system L cable TV

channel CC2: to add a system B/G or I cable TV channel

· To cancel the operation, press the (Information) button.



Note:

- For details on the relationship between the displayed CH/CC number and the actual channel number, see the Channel table on
- 4. Press the number buttons to enter the channel number.
 - · To enter a one-digit channel number, enter the corresponding number and press OK button.



Note:

When you add a station, the station preset to PR99 is deleted

To manually allocate a station to PR channel (Manual allocation)

Condition:

If your TV is AV-32WP2EP, AV-32WZ2EP or AV-28WZ2EP, you can manually allocate French channels to PR channels

To manually allocate French stations to PR channels, you must set COUNTRY to FRANCE If COUNTRY is set to any other country than FRANCE, perform "AUTO PROGRAM" steps 1 thru 4 on page 23 to set COUNTRY to FRANCE Then press the OK button to return to the INSTALL menu. Finally perform "To edit PR channel' step 2 thru 3 on page 24 to return to the EDIT menu

1. Press V/▲ to select a PR channel number.

Note:

PR channel number "AV" appears on the screen as PR 0 channel. We recommend that you allocate this PR channel to a VCR connected to the aerial socker



2. Press blue button.

Your TV enters the Manual allocation mode.



3. Press green or red button to search for a station.

Scanning stops when the TV receives a broadcast. Press green or red button to search for another station, and keep searching until you see the station

CH: Terrestnal broadcast stations CC: Cable TV stations

If reception is poor: Press the blue or yellow button to fine-tune the station.

If your TV is AV-32WP2EP. AV-32WZ2EP or AV-28WZ2EP: When COUNTRY is set to FRANCE. the broadcast system is displayed as "(B/G)", "(I") or "(L)" to the right of the PR channel number if the signal of a station is incorrectly received. press the button to change the broadcast system and then repeat step 3.

Note:

For details on the relationship between the displayed CH/CC number and the actual channel number, see the Channel table on

4. Press OK.

The station is allocated to a PR

PICTURE TILT (except AV-28WZ2EN and AV-28WZ2EP)

The AV-32WP2EN, AV-32WP2EP, AV-32WZ2EN or AV-32WZ2EP has a large picture tube in which a picture could be tilted to the left or right because of magnetic pull from the earth. Use the procedure described below to adjust the picture.

The AV-28WZ2EN or AV-28WZ2EP does not have the titled image correction function

1. Press OK.

The MENU appears.

2. Press V/▲ to select PICTURE FEATURES, then press OK.

> The PICTURE FEATURES menu appears.

Press V/▲ to select PICTURE TILT, then press

The PICTURE TILT menu appears.



4. Press √> to select the direction to which you want to correct the tilted image on your screen.

- : If it is inclined to the left , select this symbol to correct
- [1] : If it is inclined to the right . select this symbol to correct
- : If it is not inclined to either the left or right, select this symbol to set it as it is.

5. Press OK.

The correction is complete.

CONNECTING AMPLIFIERS AND **SPEAKERS**

Condition:

- When connecting audio amplifiers and speakers to your TV:
- Turn the TV and audio amplifiers
- off before connecting them.
- Set the audio amplifiers' volume to minimum
- Refer to manuals provided with the amplifier and speakers for further details

Surround speakers (L. R) Stereo amplifier (or monaural amplifier)

8 5 5

Positioning speakers

TV unit

Approx

45 degrees

Front speakers (magnetic-shielded type, L, R)

Centre speaker (magnetic-shielded type)

1, 3: Stereo amplifier

5:

(Terminals on rear)

Notes:

- are for connecting to an audio system The output level is controlled by the Volume controls of your TV. The signal from the AUDIO OUT terminals will not cut off when
- If you connect a Dolby Pro Logic FRONT L and R jacks. Your TV has off all surround function on your TV.

- The AUDIO OUT terminals on your TV headphones are connected
- Surround decoder to your TV, use the Dolby Pro Logic Surround functions, so if you connect an external decoder, turn

0

0

0

For a good effect, place speakers 4

1.0 m above the sealed listener's head

For a good effect, place speaker + as

close as possible to the TV along the

same line as or behind, speakers .

Use magnetic-shielded speakers for

speakers (and f to avoid TV

interference

To use 2 external speakers

You can cut off the sound output from the TV's speakers and enjoy sound from external front speakers.

- 1. Connect stereo amplifier T and front speakers 2 to your TV.
- 2. Turn your TV on, and press the Volume -/+ button to set the volume to the lowest setting.
- 3. Press OK. The MENU appears.

4. Press V/▲ to select SOUND SETTING, then press OK.

The SOUND SETTING menu appears.



Note:

When DOLBY PRO LOGIC or PRO LOGIC 3D-PHONIC is selected in DIGITAL SURROUND menu, "SPEAKER" does not appear. In this case, press the OK button to exit the current menu Then, press the 3D button twice to select SURROUND OFF and repeat from Step 3

5. Press ▼/▲ to select SPEAKER.

6. Press ◀/▶ to select OFF.

The TV's speakers become silent. To output sound from the TV speakers: Set SPEAKER to ON

7. Press OK.

The menu disappears.

When using the TV speakers as the centre speaker:

When enjoying the DOLBY PRO LOGIC 3D-PHONIC surround sound, it can be set so that 2 external speakers and the TV speakers (used as the centre speaker) can be used at the same

(Continued to the next page)

In particular, since models other than AV-32WP2EN and AV-32WP2EP do not have a centre speaker builtin to the TV, if this method is used the "dialogue" becomes clearer.

- 1. Press OK. The menu appears.
- Press ▼/▲ button to select DIGITAL SURROUND, then press OK.

The DIGITAL SURROUND menu appears.

 Press V/A button to select PRO LOGIC 3D-PHONIC, then press ➤.

The PRO LOGIC 3D-PHONIC menu appears.



- Press ▼/▲ button to select TV SPEAKER, then press ◀/▶ button to select CENTRE.
- Press OK. The menu disappears.
- Turn your audio amplifier on, and return the volume of your audio amplifier to the normal setting.

Note:

- Take care not to set the volume of your audio amplifier too high as this may damage your speakers.
- Press the Volume -/+ button to adjust the volume.
- This completes the procedure.

To use 4 or 5 speakers 5. Press V/A to select

You can enjoy Dolby Pro Logic Surround sound with 4 or 5 speakers.

Connect audio amplifiers and speakers to the TV.

Do one of the following:

- A: Connect stereo amplifier 3 and surround speakers 4.
 - If your TV is AV-32WP2EN or AV-32WP2EP, it has a centre speaker built-in and you can easily enjoy Dolby Pro Logic surround sound using 5 speakers.
 - If your TV is not AV-32WPZEN or A-32WPZEP, although it does not have a centre speaker built-in to the TV, you can easily enjoy Dolby Pro Logic surround sound by using the PHANTOM mode which omits the centre speaker.
- (B) Connect stereo amplifiers 1, 2, front speakers 2, and surround speakers 4. This uses the TV's speakers as the centre speakers.
- ©: Connect stereo amplifiers 1, 3, stereo amplifier (or monaural amplifier) 5, front speakers 2, surround speakers 4, and centre speaker 6. If you use this method, do not output sound from the TV's speakers.
- Turn your TV on, and press the Volume -/+ button to set the volume to the normal setting.
- 3. Press OK.

The MENU appears.

 Press ▼/▲ to select DIGITAL SURROUND, then press OK.

The DIGITAL SURROUND menu appears, showing the currently selected setting.



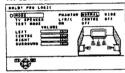
Note:

If DIGITAL SURROUND does not appear, disconnect the headphones

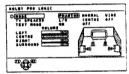
5. Press ▼/▲ to select DOLBY PRO LOGIC, then press ▶.

The DOLBY PRO LOGIC menu appears.

In the case of AV-32WP2EN or AV-32WP2EP:



In the case of models other than AV-32WP2EN and AV-32WP2EP:



Press V/▲ to select an item, and press
 to change its setting.

In the case of AV-32WP2EN or AV-32WP2EP

40-3207	Item		
Method	MODE	TV SPEAKER	
A	NORMAL	L/R/C	
B	NORMAL	CENTRE	
©	NORMAL	OFF	
	WIDE	0,1	

In the case of models other than AV-32WP2EN and AV-32WP2EP:

	Item		
Method	MODE TV SPEAKI		
A	PHANTOM	L/R	
B	NORMAL	CENTRE	
[6]	NORMAL	OFF	
E.	WIDE	0.1	

Notes

Set MODE to WIDE when using a full-range speaker as the centre speaker. Frequencies of 100 Hz or lower are output from the centre speaker to give Dolby Surround an even creater impact. Since AV-32WP2EN and AV-32WP2EP have a centre speaker built-in to the TV, it is not necessary to select the PHANTOM mode is selected.
 Sound is prevented from coming

7. Turn your audio amplifier on, and return the volume of your audio amplifier to the normal setting.

out of the centre speaker.

Note

- Take care not to set the volume of your audio amplifier too high as this may damage your speakers
- Press V/▲ to select TEST MODE.

9. Press
 MODE to ON.

Test signals alternate among the speakers.

Note:

It the test signal level is small to listen to, adjust it with the volume of your audio amplifier. However, take care not to set the volume too high as this may damage your speakers.

10. Press ◀/► to adjust the level of each of the speakers so that their volumes are the same at the listening position (the place where the person is sitting in the diagram, see page 27).

LEFT, RIGHT: Front speaker L, R

CENTRE: Centre speaker

SURROUND: Surround speakers

urround speakers Notes:

 When MODE is set to PHANTOM, the volume of CENTRE: (Centre speaker) cannot be adjusted.

 If the volume of both speakers is not the same even after adjusting the volume, adjust the volume of your audio amplifier.

11.Press OK.

The menu disappears.

This completes the procedure.

TROUBLESHOOTING

 If the plug is disconnected from the AC socket, or the TV aerial has problems, you may think there is a problem with the TV itself. Be sure to check the following before calling for service.

IMPORTANT

· Review all instructions in this manual.

	Problem -	Action
■ GENERAL	No power supply.	Insert the plug in an AC socket. Press the Main power button (see page 6).
	No picture or sound.	Check aerial connections (see page 4). Press the number 0 button to select the correct mode (see page 10). Select the correct colour system manually (see page 11).
	The power shuts off automatically.	Press the Standby button to turn the power on again (see page 6)
	Inoperable remote control.	Replace the batteries (see page 2). Insert the batteries correctly (see page 2). Use the remote control within about 7 metres of the TV.
	MENU can not be displayed.	Are you watching the Teletext screen? None of the MENU operations are possible in the Text mode. Perform the MENU operation after pressing the TV/Text button to cancel the Text mode.
■ PICTURE	Poor colour.	Adjust COLOUR and BRIGHT (see page 12). Select the correct colour system manually (see page 11).
	The screen mode suddenly changed.	The ZOOM mode's automatic selective function is working (see page 13).
	The picture is titled (AV-32WP2EN/EP, AV-32WZ2EN/EP only).	Use the PICTURE TILT to correct the tilt (see page 26).
	The SUB-picture image is disordered.	If the MAIN-picture image signal condition is bad, the SUB-picture image may be disordered. If the MAIN-picture image signal condition is improved, the SUB-picture image also improves.
	The top and bottom of the MAIN-picture or SUB-picture are missing.	If the picture standard of the MAIN-picture and SUB-picture are different, the top and bottom of one of them may be missing.
	The SUB-picture display suddenly disappears.	If an external device is operated, the SUB-picture may disappear. If this happens, press the PIP button once more and redisplay the SUE picture.

AV-32WZ2EI AV-32WZ2EI AV-28WZ2EI

TROUBLESHOOTING

	Problem	Action	
■ PICTURE	The same image is displayed in both the MAIN-picture and SUB-picture.	If the SWAP button is pressed when the image from the external decoder is displayed in the MAIN-picture, the same image is displayed in both the MAIN-picture and SUB picture. If the SWAP button is pressed once more, the previous state is returned to.	
	Lines or streaks in picture (interference).	Move the components apart until the interference is eliminated. Reposition the aenal.	
	Spots (crosstalk).	Reposition the aerial. Replace with an aerial with better directionality.	
	Double pictures (ghosts).	Reposition the aenal. Replace with an aenal with better directionality.	
	Snowy pictures (noise).	Check aerial connections. Redirect the aerial. Replace or repair the aerial.	
	The screen turns blue.	The BLUE BACK function is on (see page 16).	
SOUND	No sound from the TV's speakers.	Disconnect the headphones. If you want to have sound come from both the TV's speaker and headphones, set TV SPEAKER in the HEADPHONE menu to O (See page 8.) Set SPEAKER to ON (see page 27).	
	The headphone volume level can not be adjusted.	It can not be adjusted with the Volume -/+ button. Adjust it with th VOLUME function in the HEADPHONE menu. (See page 8.)	
	The sound from the TV does not stop even if the headphones are connected.	TV SPEAKER in the HEADPHONE menu is set to ON. Change the setting to OFF. (See page 8.)	
	No stereo sound.	Change STEREO/I•II to ① mode (see page 11). Is TV SPEAKER on the PRO LOGIC 3D-PHONIC menu or DOLBY PRO LOGIC menu set to CENTRE? Change the TV SPEAKER setting to L/R/C or L/C. (See pages 27 and 28.) When the SUB-picture is in TV mode, the SUB-picture sound is monaural only.	
	No "SUB-I" or "SUB-II" sound in a multisound broadcast.	Change STEREO/I*I to the correct mode (see page 11). The Multi sound function does not work for the SUB-picture sound.	
	Surround function does not function property.	Dolby Pro Logic Surround and DOLBY PRO LOGIC 3D-PHONIC work properly only with Dolby Surround encoded programmes. Functions other than HYPER SOUND and the Headphone surround functions work properly only with stereo programmes. HYPER SOUND works properly only with monaural programmes. None of the surround sound functions work for the SUB picture sound.	
	The POWER BASS function does not work.	Are you listening to the SUB picture sound? The POWER BASS function does not work for the SUB picture sound.	
■ TELETEXT	No teletext reception.	Tune to a teletext broadcast channel (see page 18). We recommend that you not videotape teletext, as it may not be recorded correctly.	
	The current time is not displayed.	Tune to a teletext broadcast channel (see page 16).	

The following are normal and are NOT malfunctions:

- When you louch the CRT surface, you might feel a slight charge of static electricity. This is because the CRT contains static electricity: it does not affect the human body.
- The TV may emit a crackling sound due to a sudden change in temperature. There is no problem unless the picture or sound is abnormal.
- When a bright a still image (of a white dress, for example) appears on the screen, the image may be coloured. This problem
 occurs in all CRTs, and as the bright image disappears, such colouration also disappears.
- This TV is equipped with a microcomputer that may operate abnormally due to interference from external components. If this happens, turn off the main power and disconnect the power cord from the AC socket. Then reconnect the power cord to AC socket and turn on the main power again.

Channel table

- The following table shows the relationship between the displayed CH/CC channel number and the actual channel number.
- The actual channel numbers for the "CC" channel numbers from CC110 to CC161 differ depending on the cable
 TV station. Check which actual channel numbers correspond to which "CC" channels while referring to the
 broadcast frequencies which are indicated in the channel tables of each cable TV station. If you can not find the
 broadcast frequency for a channel, contact the cable TV station.

СН	Channel	СН	Channel	cc	Channel
CH 02 / CH 202	E2	CH 40 / CH 240	E40	CC 01 / CC 201	S1
CH 03 / CH 203	E3. ITALY A	CH 41 / CH 241	E41	CC 02 / CC 202	S2
CH 04 / CH 204	E4, ITALY B	CH 42 / CH 242	E42	CC 03 / CC 203	S3
CH 05 / CH 205	E5. ITALY D	CH 43 / CH 243	E43	CC 04 / CC 204	54
CH 06 / CH 206	E6. ITALY E	CH 44 / CH 244	E44	CC 05 / CC 205	S5
CH 07 / CH 207	E7. ITALY F	CH 45 / CH 245	E45	CC 06 / CC 206	S6
CH 08 / CH 208	E8	CH 46 / CH 246	E46	CC 07 / CC 207	S7
CH 09 / CH 209	E9, ITALY G	CH 47 / CH 247	E47	CC 08 / CC 208	\$8
CH 10 / CH 210	E10, ITALY H	CH 48 / CH 248	E48	CC 09 / CC 209	59
CH 11 / CH 211	E11, ITALY H+1	CH 49 / CH 249	E49	CC 10 / CC 210	S10
CH 12 / CH 212	E12, ITALY H+2	CH 50 / CH 250	E50	CC 11 / CC 211	S11
CH 21 / CH 221	E21	CH 51 / CH 251	E51	CC 12 / CC 212	S12
CH 22 / CH 222	E22	CH 52 / CH 252	E52	CC 13 / CC 213	S13
CH 23 / CH 223	E23	CH 53 / CH 253	E53	CC 14 / CC 214	S14
CH 24 / CH 224	E24	CH 54 / CH 254	E54	CC 15 / CC 215	S15
CH 25 / CH 225	E25	CH 55 / CH 255	E55	CC 16 / CC 216	S16
CH 26 / CH 226	E26	CH 56 / CH 256	E56	GC 17 / GC 217	517
CH 27 / CH 227	E27	CH 57 / CH 257	E57	CC 18 / CC 218	518
CH 28 / CH 228	E28	CH 58 / CH 258	E58	CC 19 / CC 219	S19
CH 29 / CH 229	E29	CH 59 / CH 259	E59	CC 20 / CC 220	S20
CH 30 / CH 230	E30	CH 60 / CH 260	E60	CC 21 / CC 221	S21
CH 31 / CH 231	E31	CH 61 / CH 261	E61	CC 22 / CC 222	S22
CH 32 / CH 232	E32	CH 62 / CH 262	E62	CC 23 / CC 223	S23
CH 33 / CH 233	E33	CH 63 / CH 263	E63	CC 24 / CC 224	S24
CH 34 / CH 234	E34	CH 64 / CH 264	E64	CC 25 / CC 225	S25
CH 35 / CH 235	E35	CH 65 / CH 265	E65	CC 26 / CC 226	S26
CH 36 / CH 236	E36	CH 66 / CH 266	E66	CC 27 / CC 227	S27
CH 37 / CH 237	E37	CH 67 / CH 267	E67	CC 28 / CC 228	S28
CH 38 / CH 238	E38	CH 68 / CH 268	E68	CC 29 / CC 229	S29
CH 39 / CH 239	E39	CH 69 / CH 269	E69	CC 30 / CC 230	S30

CC 31 / CC 231	S31
CC 32 / CC 232	\$32
CC 33 / CC 233	S33
CC 34 / CC 234	\$34
CC 35 / CC 235	S35
CC 36 / CC 236	S36
CC 37 / CC 237	S37
CC 38 / CC 238	S38
CC 39 / CC 239	S39
CC 40 / CC 240	S40
CC 41 / CC 241	S41
CC 75 / CC 275	х
CC 76 / CC 276	Y
CC 77 / CC 277	Z. ITALY C
CC 78 / CC 278	Z+1
CC 79 / CC 279	Z+2

Channel

CC

(Continued to the next page)

Channel table

СН	Channel	СН	Channel	cc	Frequency (MHz)
CH 102	F2	CH 141	F41	GC 110	116 - 124
CH 103	F3	CH 142	F42	CC 111	124 - 132
CH 104	F4	CH 143	F43	CC 112	132 - 140
CH 105	F5	CH 144	F44	CC 113	140 - 148
CH 106	F6	CH 145	F45	CC 114	148 - 156
CH 107	F7	CH 146	F46	CC 115	156 - 164
CH 108	F8	CH 147	F47	CC 116	164 - 172
CH 109	F9	CH 148	F48	CC 123	220 - 228
CH 110	F10	CH 149	F49	CC 124	228 - 236
CH 121	F21	CH 150	F50	CC 125	236 - 244
CH 122	F22	CH 151	F51	CC 126	244 - 252
CH 123	F23	CH 152	F52	CC 127	252 - 260
CH 124	F24	CH 153	F53	CC 128	260 - 268
CH 125	F25	CH 154	F54	CC 129	268 - 276
CH 126	F26	CH 155	F55	CC 130	276 - 284
CH 127	F27	CH 156	F56	CC 131	284 - 292
CH 128	F28	CH 157	F57	CC 132	292 - 300
CH 129	F29	CH 158	F58	CC 133	300 - 306
CH 130	F30	CH 159	F59	CC 141	306 - 311
CH 131	F31	CH 160	F60	CC 142	311 - 319
CH 132	F32	CH 161	F61	CC 143	319 - 327
CH 133	F33	CH 162	F62	CC 144	327 - 335
CH 134	F34	CH 163	F63	CC 145	335 - 343
CH 135	F35	CH 164	F64	CC 146	343 - 351
CH 136	F36	CH 165	F65	CC 147	351 - 359
CH 137	F37	CH 166	F66	CC 148	359 - 367
CH 138	F38	CH 167	F67	CC 149	367 - 375
CH 139	F39	CH 168	F68	CC 150	375 - 383
CH 140	F40	CH 169	F69		

SPECIFICATIONS

Frequency (MHz)

383 - 391

391 - 399

399 - 407

407 - 415 415 - 423

423 - 431

431 - 439

439 - 447

447 - 455

455 - 463 463 - 469

CC 151

CC 152

CC 153

CC 154

CC 155

CC 157

CC 158

CC 159

CC 160

Model	AV-32WP2EN	AV-32WZ2EN	AV-28WZ2EN	
tem	CCIR B/G			
TV RF systems	PAL SECAM (NTSC 3.58 / 4.43 M	Alde anticin EVT modes)		
Colour systems				
Channels and frequencies	E2-E12, E21-E69, S1-S41, X, Y, 2	2, 2+1, 2+2, A-11, 11+1, 11+2		
Sound-multiplex systems	A2/NICAM system	TOD (Comment / MCT (etc	andard system)	
Teletext systems		/ TOP (German system) / WST (sta	Indarc system)	
Power requirements	AC 220 - 240 V, 50 Hz		200	
Power consumption	Maximum 266 W, Average 161 W, Standby 0.8 W	Maximum 248 W, Average 151 W, Standby 0.8 W	Maximum 242 W, Average 147 W, Standby 0.8 W	
Picture tube size	Visible area 76 cm (measured diagonally)	Visible area 66 cm (measured diagonally)		
Audio output	Rated Power output 20 W + 20 W + 5 W	Rated Power output 20 W + 20 W		
Speakers	10 cm round × 2, 3.5 cm round × 2, (10 cm × 3 cm oval) × 1	10 cm round × 2, 3.5 cm round × 2		
External input / output	EXT-1, EXT-2, EXT-3	21-pin Euroconnector (SCART)		
	EXT-4	VIDEO IN (RCA) AUDIO L / R IN (RCA) S-VIDEO IN (Mini Din 4-pin)		
	AUDIO OUT	(Variable out (0-1 Yrms), low impedance) CENTRE output (RCA) FRONT L/R output (RCA) SURROUND REAR L/R output (RCA)		
	Headphone jack (stereo mini jack, dia. 3.5 mm)			
Dimensions (W × H × D)	805 mm × 550 mm × 550 mm		716 mm × 489 mm × 496 mm	
Weight	50.3 kg 50.2 kg		36.3 kg	
Accessories	Remote control unit RM-C791 × 1 AAA (R03) dry cell battery × 2 AAA (R03) dry cell battery × 2			

Design and specifications subject to change without notice.

Pictures displayed on the screen using this TV's image-processing functions should not be shown for any commercial or demonstration purpose in public places (tearooms and halls in hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this constitutes an infringement of copyright.